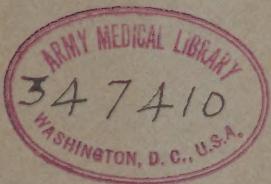


New York, U.S.A. Dept.
Special Bulletin No. 210

1941

of Labor. Division
CAUSES OF COMPENSATED
ACCIDENTS
FOUR YEARS, 1936, 1937, 1938 AND 1939



New York State Department of Labor
FRIEDA S. MILLER, Industrial Commissioner
Division of Statistics and Information
Eugene B. Patton, Director

7-18-41-1000 (6-H2-81)

Price \$1.50

Box #1257

New York, 4.5.Q. Dept.
Special Bulletin No. 210
1941
of Labor. Division

CAUSES OF COMPENSATED
ACCIDENTS
FOUR YEARS, 1936, 1937, 1938 AND 1939



New York State Department of Labor
FRIEDA S. MILLER, Industrial Commissioner
Division of Statistics and Information
Eugene B. Patton, Director

Bok # 1257

8-1-42

1941

LETTER OF TRANSMITTAL

DIVISION OF STATISTICS AND INFORMATION

July 8, 1941

MADAM:

Herewith is transmitted Special Bulletin No. 210, presenting an analysis of the causes of the industrial accidents for which closing awards of compensation were made in the four years ended December 31, 1939. Previous bulletins on the causes of compensated accidents, namely Special Bulletins No. 126, 142, 152, 164 and 176 covered eight fiscal years from July 1, 1922 to June 30, 1930. Bulletins No. 182, 196 and 210 are for the calendar years 1930 to 1939 inclusive.

The compensation cost, kinds of injuries and occupational diseases, and industries in which the accidents occurred were analyzed in Special Bulletins No. 126, 142, 146, 148, 157, 160, 170, 178, 183, 191 and 208.

This bulletin was prepared by Mr. A. F. Stevens, Senior Statistician. The detailed tables in the appendix were prepared by Mr. A. H. Lamborn.

Respectfully submitted,

E. B. PATTON,

*Director, Division of Statistics
and Information*

HON. FRIEDA S. MILLER,

Industrial Commissioner

TABLE OF CONTENTS

	Page
Letter of transmittal	2
Causes of compensated accidents	5
Relative frequency and cost of compensated injuries from different causes	7
Handling objects and tools	8
Falls of workers	10
Mechanical apparatus	12
Vehicles	13
Dangerous and harmful substances	14
Other accident causes	15
Relative severity of injuries from different causes	17
Severity as indicated by kind of disability	17
Severity as indicated by number of weeks awarded	22
Trend in number of accidents in different cause groups	25
Chief causes of accidents in different industries	27
Compensated accidents in manufacturing	28
Compensated accidents in construction	30
Compensated accidents in service industries	30
Compensated accidents in transportation and public utilities	34
Compensated accidents in trade	34
Compensated accidents in other industries	35

TABLES—CHIEF CAUSES OF COMPENSATED ACCIDENTS

1. Number and Cost of Compensated Accidents	6
2. Number and Cost of Compensated Accidents by Chief Causes	7
3. Yearly Average Number of Compensated Accidents by Chief Causes	9
4. Number, Severity and Cost of Compensated Accidents Due to Handling Objects and Tools	10
5. Number, Severity and Cost of Compensated Accidents Due to Falls of Workers	11
6. Number, Severity and Cost of Compensated Accidents Due to Mechanical Apparatus	12
7. Number, Severity and Cost of Compensated Accidents Due to Vehicles	13
8. Number, Severity and Cost of Compensated Accidents Due to Dangerous and Harmful Substances	14
9. Number, Severity and Cost of Compensated Accidents Due to Falling Objects	15
10. Number, Severity and Cost of Compensated Accidents Due to Stepping On and Striking Objects	16

	Page
11. Number, Severity and Cost of Compensated Accidents Due to Other and Indefinite Causes	16
12. Number and Percentage Distribution of Compensated Accidents by Kind of Disability and Chief Causes.....	18
13. Percentage Distribution of Number and Cost of Compensated Accidents by Chief Causes	21
14. Severity of Permanent Partial and Temporary Injuries by Chief Causes	22
15. Yearly Average Number and Severity of Permanent Partial and Temporary	24
16. Trend in Number of Compensated Accidents by Chief Causes	26
17. Number and Cost of Compensated Accidents by Industry Groups	29
18. Percentage Distribution of Compensated Accidents by Cause and Industry Groups	32
19. Occupational Diseases Due to Harmful Substances and Occupational Activity	36

TABLES—DETAILED CAUSES OF ACCIDENTS, ALL INDUSTRIES

20. Number, Severity and Cost of Compensated Accidents, by Kind of Disability and by Cause, 1936.....	38
21. Number, Severity and Cost of Compensated Accidents, by Kind of Disability and by Cause, 1937.....	55
22. Number, Severity and Cost of Compensated Accidents, by Kind of Disability and by Cause, 1938.....	72
23. Number, Severity and Cost of Compensated Accidents, by Kind of Disability and by Cause, 1939.....	89

TABLES—DETAILED CAUSES OF ACCIDENTS IN DIFFERENT INDUSTRIES

24. Number of Compensated Accidents, by Cause and by Industry, 1936	105
25. Number of Compensated Accidents, by Cause and by Industry, 1937	117
26. Number of Compensated Accidents, by Cause and by Industry, 1938	129
27. Number of Compensated Accidents, by Cause and by Industry, 1939	141

CAUSES OF COMPENSATED ACCIDENTS

CASES CLOSED IN 1936, 1937, 1938 and 1939

This Bulletin presents statistical data on the causes of the compensated industrial accidents for which final awards of compensation were made by the Department of Labor in the four calendar years, 1936 to 1939, inclusive compared with the average of the five years, 1935 to 1939.

The data in this bulletin must be interpreted in terms of the kind of information that becomes available in the course of administering the Workmen's Compensation Law. The papers that come into existence in connection with each case are necessarily built up around the idea of compensation rather than accident prevention. Clear recognition of this distinction serves to define the field of usefulness of a bulletin of this type which is indispensable in the administration of a compensation law and in measuring the toll which is being taken by industrial accidents of various types.

The present bulletin is based on the available facts in connection with compensated cases closed in the four years from January 1, 1936, to December 31, 1939, representing a total of more than 300,000 industrial accidents serious enough to cause more than one week of lost time, a permanent handicap, or death. With these as a basis it is possible to point out what types of accidents are most numerous and most costly, and where accident prevention measures are most urgently needed. The awards to the injured workers, or their dependents, amounted to the equivalent of about 9,500,000 weeks of working time and \$109,144,157 in compensation payments. Amounts awarded for compensation only are tabulated. These form only part of the actual cost of the accidents because they do not include medical or administrative expenses which are a large item in the total cost of industrial accidents. The number of cases closed each year of the four year period covered ranged from 75,458 in 1936 to 80,929 in 1937. The average for the period was 78,154 compensated accidents a year.

The total of 80,929 cases compensated in 1937 is higher than in any year recorded since 1932. This rise is largely the result of increasing employment which effected a marked increase in the number of compensated accidents during 1936 and 1937. During the two

years following, the number of compensated cases fell off moderately. The 1936-1939 figures reflect a sizable increase over the 1931-1935 average in the proportion of permanent partial cases and a large decrease in the relative number of temporary cases.

This analysis covers a total of 312,614 compensated industrial accidents of which 3,353 were fatal, 369 caused permanent total disability, 85,516 caused a permanent partial handicap, and 223,376 resulted in temporary disability only. The compensation cost of these accidents, exclusive of administrative and medical costs, was more than one hundred million dollars. Table 1 shows the distribution by kind of disability for each year while other tables contained in this bulletin are arranged by accident cause groups and show different kinds of data for the various cause classifications.

During these four years the average cost of permanent total disabilities has shown a marked decrease but the cost of temporary disabilities has risen. Because there are so many of the latter the net result was an increase in the average cost of all disabilities from \$346 in 1936 to \$362 in 1939. The average per case for the five-year period was \$352.

TABLE 1
NUMBER AND COST OF COMPENSATED ACCIDENTS

Kind of disability	Average 1935 to 1939 incl.	Cases closed in			
		1936	1937	1938	1939
Number of cases					
Total — All Disabilities	76,477	75,458	80,929	78,870	77,357
Death.....	823	844	894	851	764
Permanent total.....	102	90	81	111	87
Permanent partial.....	20,580	19,434	21,473	22,739	21,870
Temporary.....	54,972	55,090	58,481	55,169	54,636

Number of weeks awarded*					
Total — All Disabilities	2,318,913	2,305,383	2,319,527	2,424,910	2,351,249
Death.....	823,000	844,000	894,000	851,000	764,000
Permanent total.....	102,000	90,000	81,000	111,000	87,000
Permanent partial.....	936,900	976,153	917,991	969,000	944,629
Temporary.....	457,013	395,230	426,536	493,910	555,620

Amount of compensation*					
Total — All Disabilities	\$26,909,853	\$26,117,307	\$26,335,690	\$28,719,803	\$27,971,357
Death.....	4,703,210	4,674,180	5,269,872	4,979,372	4,416,917
Permanent total.....	1,738,196	1,629,969	1,402,870	1,717,216	1,306,268
Permanent partial.....	14,624,609	14,781,868	14,196,300	15,682,294	15,198,416
Temporary.....	5,843,838	5,031,290	5,466,648	6,340,921	7,049,756

Average award per case					
Total — All Disabilities	\$352	\$346	\$325	\$364	\$362
Death.....	5,715	5,538	5,895	5,851	5,781
Permanent total.....	17,041	18,111	17,319	15,470	15,015
Permanent partial.....	711	761	661	690	695
Temporary.....	106	91	93	115	129

* Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

RELATIVE FREQUENCY AND COST OF COMPENSATED INJURIES FROM DIFFERENT CAUSES

In Table 2 the compensated industrial accidents analyzed in this bulletin are distributed according to the chief causes of accidents. This table shows the number of injuries attributed to each of the main causes with the total number of weeks, total amount of compensation, and average compensation cost per case for each of the cause groups. Yearly averages for these items covering the five-year period 1935-1939 are given in Table 3.

TABLE 2

NUMBER AND COST OF COMPENSATED ACCIDENTS BY CHIEF CAUSES

Causes of injuries	Number of cases	Number of weeks awarded*	Compensation*	
			Total amount	Average per case
Cases closed in 1936				
Handling Objects and Tools	27,900	438,987	\$5,654,121	\$203
Handling objects	23,004	362,349	4,563,164	198
Using hand tools	4,896	76,638	1,090,957	223
Falls of Workers	17,152	642,325	7,565,629	441
Falls to a different level	7,346	416,578	4,775,613	650
Falls on the same level	9,806	225,747	2,790,016	285
Mechanical Apparatus	9,532	359,228	4,269,048	448
Machinery, prime movers, etc.	7,971	214,372	2,837,582	356
Elevators, hoists and conveyors	1,561	144,856	1,431,466	917
Vehicles	5,800	400,207	3,665,783	632
Motor vehicles	4,903	317,148	2,890,155	589
All other vehicles	897	83,059	775,628	865
Dangerous and Harmful Substances	4,693	168,556	1,644,228	350
Electricity, explosives, heat, etc.	2,811	121,593	1,124,738	406
Harmful substances and occupational activity	1,882	46,963	519,490	276
Accidental injuries	898	24,833	234,208	261
Occupational diseases	984	22,130	285,282	290
Stepping On and Striking Objects	3,643	56,601	689,618	189
Falling Objects	3,046	111,821	1,320,001	433
Other and Indefinite	3,692	127,658	1,308,879	355
Total — All Causes	75,458	2,305,383	\$26,117,307	\$346

Cases closed in 1937

Handling Objects and Tools	30,490	452,467	\$5,807,557	\$190
Handling objects	25,193	369,546	4,660,902	185
Using hand tools	5,297	82,921	1,146,655	216
Falls of Workers	17,698	649,319	7,530,369	425
Falls to a different level	7,796	437,974	4,797,230	615
Falls on the same level	9,902	211,345	2,733,139	276
Mechanical Apparatus	10,707	352,396	4,386,059	410
Machinery, prime movers, etc.	8,950	232,764	3,164,624	354
Elevators, hoists and conveyors	1,757	119,632	1,221,435	695
Vehicles	5,646	355,253	3,443,783	610
Motor vehicles	4,791	287,669	2,824,234	589
All other vehicles	855	67,584	619,549	725
Dangerous and Harmful Substances	5,448	218,427	2,080,453	382
Electricity, explosives, heat, etc.	3,095	147,488	1,397,540	452
Harmful substances and occupational activity	2,353	70,939	682,913	290
Accidental injuries	939	33,063	333,415	355
Occupational diseases	1,414	37,876	349,498	247
Stepping On and Striking Objects	4,090	56,462	677,516	166
Falling Objects	3,274	118,403	1,178,253	360
Other and Indefinite	3,576	116,800	1,231,700	344
Total — All Causes	80,929	2,319,527	\$26,335,690	\$325

* Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 2—Continued
NUMBER AND COST OF COMPENSATED ACCIDENTS BY CHIEF CAUSES

Causes of injuries	Number of cases	Number of weeks awarded*	Compensation*	
			Total amount	Average per case
Cases closed in 1938				
Handling Objects and Tools	29,246	465,281	\$6,359,408	\$217
Handling objects	24,114	390,013	5,219,116	216
Using hand tools	5,132	75,268	1,140,292	222
Falls of Workers	17,895	680,122	8,238,624	460
Falls to a different level	7,976	447,697	5,176,516	649
Falls on the same level	9,919	232,425	3,062,108	309
Mechanical Apparatus	9,823	327,570	4,293,091	437
Machinery, prime movers, etc.	8,013	204,649	2,991,314	373
Elevators, hoists and conveyors	1,810	122,921	1,301,777	719
Vehicles	5,750	389,368	3,841,118	668
Motor vehicles	4,895	326,680	3,205,121	655
All other vehicles	855	62,688	635,997	744
Dangerous and Harmful Substances	5,246	263,334	2,432,628	464
Electricity, explosives, heat, etc.	2,880	173,458	1,684,837	585
Harmful substances and occupational activity	2,366	89,876	747,791	316
Accidental injuries	925	24,294	253,842	274
Occupational diseases	1,441	65,582	493,949	343
Stepping On and Striking Objects	3,980	51,053	650,595	163
Falling Objects	3,362	130,420	1,465,827	436
Other and Indefinite	3,568	117,762	1,438,512	403
Total — All Causes	78,870	2,424,910	\$28,719,803	\$364
Cases closed in 1939				
Handling Objects and Tools	28,678	442,869	\$6,068,504	\$212
Handling objects	23,937	363,719	4,869,791	203
Using hand tools	4,741	79,150	1,198,713	253
Falls of Workers	18,256	690,624	8,391,067	460
Falls to a different level	8,015	452,387	5,210,817	650
Falls on the same level	10,241	238,237	3,180,250	311
Mechanical Apparatus	8,999	306,564	4,038,771	449
Machinery, prime movers, etc.	7,389	192,023	2,786,803	377
Elevators, hoists and conveyors	1,610	114,541	1,251,968	778
Vehicles	5,949	397,443	3,970,613	667
Motor vehicles	5,131	323,987	3,241,622	632
All other vehicles	818	73,456	728,991	891
Dangerous and Harmful Substances	5,113	230,504	2,090,421	409
Electricity, explosives, heat, etc.	2,717	138,753	1,304,687	480
Harmful substances and occupational activity	2,396	91,751	785,734	328
Accidental injuries	874	28,062	269,909	309
Occupational diseases	1,522	63,689	515,825	339
Stepping On and Striking Objects	3,762	58,267	754,240	200
Falling Objects	3,151	115,116	1,324,429	420
Other and Indefinite	3,449	109,862	1,333,312	387
Total — All Causes	77,357	2,351,249	\$27,971,357	\$362

* Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

The data in Tables 2 and 3 show the comparative frequency and cost of the different types of compensated accidents. Sufficient data are not available to compute reliable accident frequency rates. A brief discussion of the significant facts shown by these data follows.

Handling Objects and Tools

Comparison of the number of compensated injuries in each of the main cause groups in Table 2 shows that accidents occurring in connection with handling objects and tools were more frequent in each of the four years included than any other type of accident. All workers handle materials in the course of their employment. It is probable, therefore, that more workers are exposed to the hazards connected with handling things than to any other hazards.

The "Handling Objects and Tools" cause group is divided into two subdivisions, the smaller consisting only of handling tools in use, the larger consisting of handling all other objects. About one-fifth of both the number of cases closed and the amount of compensation awarded in this entire group was for injuries occurring in connection with the use of hand tools and four-fifths for all other injuries from handling things.

Over 37 per cent of all compensated accidents tabulated for the years 1936 to 1939, occurred in connection with handling objects and using hand tools, the number of cases ranging from 30,490

TABLE 3
NUMBER AND COST OF COMPENSATED ACCIDENTS BY CHIEF CAUSES
Yearly Average, Cases Closed 1935-1939

Causes of injuries	Total number of cases	Total amount of compensation	Average compensation per case
Handling Objects and Tools.....	28,292	\$5,794,252	\$205
Handling objects.....	23,337	4,659,036	200
Using hand tools.....	4,955	1,135,216	229
Falls of Workers.....	17,436	7,959,912	457
Falls to a different level.....	7,637	5,034,300	659
Falls on the same level.....	9,799	2,925,552	299
Mechanical Apparatus.....	9,556	4,120,024	431
Machinery, prime movers, etc.....	7,933	2,831,595	357
Elevators, hoists and conveyors.....	1,623	1,288,420	794
Vehicles.....	5,746	3,723,966	648
Motor vehicles.....	4,904	3,028,969	618
All other vehicles.....	842	694,997	825
Dangerous and Harmful Substances and Occupational Activity.....	4,918	1,948,383	396
Electricity, explosives, heat, etc.....	2,814	1,285,668	457
Harmful substances.....	2,104	662,715	315
Accidental injuries.....	893	877,438	311
Occupational diseases.....	1,211	385,277	313
Stepping On and Striking Objects.....	3,792	707,676	187
Falling Objects.....	3,159	1,300,213	412
Other and Indefinite.....	3,578	1,355,427	379
Total — All Causes.....	76,477	\$26,909,853	\$352

closed in 1937 to 27,900 closed in 1936 and totaling over 116,000 in the four years covered. Nearly twenty-four million dollars was awarded for all injuries from handling objects and tools in this four-year period. The total compensation cost of accidents in handling was great because the number of injuries was much larger than from any other cause. It amounted to 22 per cent of the total cost of compensated industrial accidents whereas the number of accidents for which this amount was awarded comprised 37 per cent of the total number.

Comparison of the average compensation costs in Table 4 shows that accidents involving handling objects and tools were among the least costly, the average ranging from slightly under to slightly over \$200 a case whereas the average for all cases combined was over \$350 a case. Further details regarding kinds of disabilities occurring in connection with handling objects and tools are given in Table 4.

In Table 4 the number and cost of compensated accidents due to handling objects and tools during the five-year period 1935 to

1939 are given with other data relating to the kind and length of disability resulting from these accidents. The yearly average for the group was 28,292; the compensation cost \$5,794,252; and the average cost per case \$205.

TABLE 4
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO HANDLING
OBJECTS AND TOOLS

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation‡	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HANDLING OBJECTS						
1935.....	20,439	318,148	\$3,982,206	(9)	72	3,860
1936.....	23,004	362,349	4,563,164	(13)	92	4,486
1937.....	25,193	389,546	4,660,902	(11)	99	5,045
1938.....	24,114	390,013	5,219,116	(12)	87	5,529
1939.....	23,937	363,719	4,869,791	(8)	58	5,250
Total — five years.....	116,687	1,803,775	\$23,295,179	(53)	408	24,170
Yearly average.....	23,337	360,755	\$4,659,036	(11)	81	4,834
USING HAND TOOLS						
1935.....	4,709	73,761	\$1,099,466	(10)	16	1,397
1936.....	4,896	76,638	1,090,957	(4)	12	1,668
1937.....	5,297	82,921	1,146,655	(3)	16	1,842
1938.....	5,132	75,268	1,140,292	(2)	9	1,994
1939.....	4,741	79,150	1,198,713	(5)	12	1,911
Total — five years.....	24,775	387,738	\$5,676,083	(24)	65	8,812
Yearly average.....	4,955	77,548	\$1,135,216	(5)	13	1,762

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

NOTE: See Table 2 for total "Handling objects and tools."

Falls of Workers

The cause group, "Falls of Workers," was second in number of compensated injuries, but highest in total compensation cost. Compared with accidents occurring while handling objects and tools, falls caused an average, in 1935 to 1939, of nearly 11,000 fewer compensated injuries a year, but their average yearly cost was about two million dollars greater. This comparison gives some indication of the severity of the injuries resulting from falls.

The "Falls of Workers" cause group has two subdivisions, "Falls to a Different Level" which includes falls on stairs, from elevations and into openings, and "Falls on the Same Level" including near-falls, slipping and stumbling. Falls to a different level were somewhat less numerous than falls on the same level, but the resulting injuries were much more severe as is shown by the fact that the total compensation cost for this subdivision was nearly twice as great as the cost of falls on the same level (see Table 5). This cause group does not include falls* from vehicles which are classified as vehicle accidents or falls into elevator shafts which are classified as elevator accidents. Both of these excluded types caused severe injuries, many of them fatal.

* See footnote, Table 5.

Compensated injuries from falls, including falls from one level to another and those on the same level, have increased in number from 17,152 with closing awards of compensation made in 1936, to 18,256 with final awards made in 1939. The average for the five years was 17,436 falls a year costing \$7,959,912 a year in compensation. About 23 per cent of all compensated injuries were the result of falls while 29 per cent of the total amount of compensation was awarded for the injuries from falls. Falls to a different level were responsible for 10 per cent of the injuries and 19 per cent of the compensation cost while falls on the same level were responsible for 13 per cent of the injuries and 11 per cent of the cost (see Table 13). Falls to a different level averaged \$659 a case while falls on the same level averaged \$299 a case for compensation.

TABLE 5

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO FALLS[‡] OF WORKERS

Cases closed in	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLS TO A DIFFERENT LEVEL						
1935.....	7,050	435,905	\$5,211,622	(35)	177	1,742
1936.....	7,346	416,578	4,775,613	(20)	160	1,864
1937.....	7,798	437,974	4,797,230	(20)	198	2,006
1938.....	7,976	447,697	5,176,516	(12)	170	2,193
1939.....	8,015	452,387	5,210,817	(14)	165	2,184
Total — five years.....	38,183	2,190,541	\$25,171,798	(101)	871	9,989
Yearly average.....	7,637	438,108	\$5,034,360	(20)	174	1,998
FALLS ON THE SAME LEVEL						
1935.....	9,129	232,728	\$2,862,250	(15)	80	1,797
1936.....	9,806	225,747	2,790,016	(10)	57	1,866
1937.....	9,902	211,345	2,733,139	(6)	42	2,105
1938.....	9,919	232,425	3,062,108	(9)	46	2,175
1939.....	10,241	238,237	3,180,250	(10)	42	2,240
Total — five years.....	48,997	1,140,482	\$14,627,763	(50)	247	10,183
Yearly average.....	9,799	228,096	\$2,925,552	(10)	49	2,037

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ Excludes falls occurring in connection with elevators, hoists and conveyors and falls from vehicles totaling 62 in 1936, 51 in 1937, 56 in 1938 and 50 in 1939. For details see Tables 20 to 23, pages 38 to 89.

NOTE: See Table 2 for total "Falls of Workers."

Mechanical Apparatus

Third in numerical rank and in compensation cost was the cause group, "Mechanical Apparatus," which was considerably below either "Handling Objects and Tools" or "Falls of Workers," both in number of compensable injuries and in total compensation cost.

The "Mechanical Apparatus" cause group is made up of two subdivisions. One consists of accidents occurring in connection with the operation of machinery of all kinds including prime movers and power transmission apparatus. This subdivision includes about five-sixths of all accidents from mechanical apparatus. The second or

smaller subdivision consists of accidents due to hoisting and conveying apparatus, such as elevators, dumbwaiters, construction hoists, derricks, cranes and conveyors of all kinds. This comparatively small subgroup of injuries due to elevators, hoists and conveyors contained the most costly of all compensated injuries and was responsible for about one-third of the cost of mechanical apparatus accidents (see Table 6).

TABLE 6
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO MECHANICAL APPARATUS

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, PRIME MOVERS, ETC.						
1935.....	7,340	193,985	\$2,377,053	(5) 44	3,291	4,005
1936.....	7,971	214,372	2,837,582	(5) 38	3,789	4,144
1937.....	8,950	232,764	3,184,624	(3) 49	4,482	4,419
1938.....	8,013	204,649	2,991,314	(4) 25	4,267	3,721
1939.....	7,389	192,023	2,786,803	(5) 29	3,946	3,414
Total — five years.....	39,663	1,037,793	\$14,157,976	(22) 185	19,775	19,703
Yearly average.....	7,933	207,559	\$2,831,595	(4) 37	3,955	3,941
ELEVATORS, HOISTS AND CONVEYORS						
1935.....	1,377	117,454	\$1,235,497	(12) 65	593	719
1936.....	1,561	144,856	1,431,466	(4) 79	710	772
1937.....	1,757	119,632	1,221,435	(3) 64	810	883
1938.....	1,810	122,921	1,301,777	(5) 67	906	837
1939.....	1,610	114,541	1,251,968	(6) 58	746	800
Total — five years.....	8,115	619,404	\$6,442,143	(30) 333	3,765	4,017
Yearly average.....	1,623	123,881	\$1,288,429	(6) 67	753	803

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

NOTE: See Table 2 for total "Mechanical Apparatus."

The number of mechanical apparatus accidents ranged from 7,389 cases closed in 1939 to 8,950 closed in 1937. In the two cause groups, "Handling Objects and Tools" and "Falls of Workers," the smallest number of cases was closed in 1936 which was a year in which the effect of the preceding low level of employment was most apparent on number of compensated accident cases closed. The 1937 figures for these two groups begin to show the effect of increased exposure to industrial hazards due to improved employment conditions.

The data in Table 3 show that compensated injuries caused by mechanical apparatus averaged 9,556 a year at a total compensation cost of \$4,120,024 a year for the period 1935-1939. The average cost amounted to \$357 a case for injuries caused by machinery, prime movers, etc., and \$794 a case for those caused by elevators, hoists and conveyors. See Tables 2 and 6 for more complete details regarding this group of accidents.

Vehicles

Vehicle accidents were fourth in number of injuries and in total compensation cost. They numbered nearly 4,000 less than mechanical apparatus accidents, but their average compensation cost was higher in each of the four years tabulated.

The "Vehicles" cause group is divided into two subdivisions. The larger, which includes five-sixths of all vehicle accidents, consists of those caused by motor vehicles, namely, automobiles, motor trucks and motor cycles. The smaller subdivision consist of accidents caused by all other conveyances, such as steam and electric railways, horsedrawn vehicles, bicycles and boats.

Vehicle accidents ranged in number from 5,646 cases closed in 1937 to 5,949 closed in 1939. The average for the five years was 5,746 cases and \$3,723,966 compensation per year. Vehicles caused 7.5 per cent of the total number of compensated injuries, 6.4 per cent being attributed to motor vehicles and about 1 per cent to all other conveyances. About 14 per cent of the total amount of compensation was awarded for the injuries caused by vehicles, somewhat over 11 per cent being charged to motor vehicles and nearly 3 per cent to other vehicles (see Tables 7 and 13).

TABLE 7
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO VEHICLES

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
AUTOMOBILES AND MOTOR TRUCKS						
1935.....	4,798	294,959	\$2,983,711	(16)	182	1,433
1936.....	4,903	317,148	2,890,155	(4)	196	1,512
1937.....	4,791	287,669	2,824,234	(11)	175	1,478
1938.....	4,895	328,680	3,205,121	(11)	205	1,533
1939.....	5,131	323,987	3,241,622	(10)	185	1,604
Total — five years.....	24,518	1,550,443	\$15,144,843	(52)	943	7,560
Yearly average.....	4,904	310,089	\$3,028,969	(10)	189	1,512
OTHER VEHICLES						
1935.....	785	79,639	\$714,823	(5)	57	212
1936.....	897	83,059	775,628	(6)	61	205
1937.....	855	67,584	619,549	(3)	49	223
1938.....	855	62,688	635,997	(4)	41	271
1939.....	818	73,456	728,991	(2)	55	219
Total — five years.....	4,210	366,426	\$3,474,988	(20)	263	1,130
Yearly average.....	842	73,285	\$694,997	(4)	53	226

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

NOTE: See Table 2 for total "Vehicles."

Dangerous and Harmful Substances

Considerably below the four outstanding causes of industrial accidents described in the preceding sections was the cause group, "Dangerous and Harmful Substances." This group was fifth in number of injuries caused and amount of compensation awarded for them.

The "Dangerous and Harmful Substances" cause group includes two subdivisions. One subdivision under the title of "Electricity, Explosives, Heat, Etc." includes injuries caused by electricity, explosives, boilers and other objects which explode or burst because of steam or high pressure, hot and molten substances, flames, fires, etc. The second or "Harmful Substances" subdivision includes corrosive substances causing chemical burns, such as acids and alkalies, substances which cause accidental poisoning and substances which cause occupational diseases. Occupational diseases resulting from harmful occupational activity are also included in the latter subdivision. Their number and cost are shown in Table 19 on page 36. About two-thirds of the injuries from exposure to or contact with dangerous and harmful substances were caused by explosives, electricity, heat, etc., while one-third were caused by harmful substances (see Table 8). More complete details as to the causes of occupational diseases are given in Special Bulletin No. 208, pages 70 to 73.

TABLE 8
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO DANGEROUS
AND HARMFUL SUBSTANCES

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
ELECTRICITY, EXPLOSIVES, HEAT, ETC.						
1935.....	2,569	104,457	\$916,539	(5) 75	852	2,142
1936.....	2,811	121,593	1,124,738	(4) 82	391	2,338
1937.....	3,095	147,488	1,397,540	(4) 111	448	2,536
1938.....	2,880	173,458	1,684,837	(5) 132	486	2,262
1939.....	2,717	138,753	1,304,687	(4) 93	541	2,083
Total — five years.....	14,072	685,749	\$6,428,341	(22) 493	2,218	11,361
Yearly average.....	2,814	137,150	\$1,285,668	(4) 98	444	2,272

HARMFUL SUBSTANCES

1935.....	1,521	50,956	\$577,644	(3) 25	115	1,377
1936.....	1,882	46,963	519,490	(2) 23	151	1,708
1937.....	2,353	70,939	682,913	(5) 39	187	2,127
1938.....	2,366	89,876	747,791	(28) 55	185	2,126
1939.....	2,398	91,751	785,734	(10) 52	183	2,161
Total — five years.....	10,518	350,485	\$3,313,572	(48) 198	821	9,499
Yearly average.....	2,104	70,097	\$662,715	(10) 40	164	1,900

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

NOTE: See Table 2 for total "Dangerous and harmful substances."

The number of injuries or diseases from dangerous and harmful substances ranged from 4,693 compensated in 1936 to 5,448 compensated in 1937, with an average of 4,918 cases closed per year at a compensation cost of \$1,948,383 a year. These injuries averaged \$396 a case, those due to harmful substances being less costly than those due to explosives, electricity and heat (see Table 3).

Dangerous and harmful substances of all kinds were responsible for about 6 per cent of the compensated injuries and about 7 per cent of the total compensation cost (see Table 13).

Other Accident Causes

The cause group "Falling Objects," is one of the three smallest main groups and is not subdivided for these summaries. These accidents have dropped from fifth in numerical importance in 1931 to seventh in recent years. In the five years 1935 to 1939 these cases averaged 3,159 per year with \$1,300,213 in compensation (see Table 9).

TABLE 9

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO FALLING OBJECTS

Cases closed in	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
1935.....	2,963	101,022	\$1,212,555	(7)	39	233
1936.....	3,046	111,821	1,320,001	(8)	46	263
1937.....	3,274	118,403	1,178,253	(6)	57	1,067
1938.....	3,382	130,420	1,465,827	(10)	61	1,258
1939.....	3,151	115,116	1,324,429	(3)	42	1,163
Total — five years.....	15,796	576,782	\$6,501,065	(34)	245	5,404
Yearly average.....	3,159	115,356	\$1,300,213	(7)	49	1,081

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

The "Stepping on and Striking Objects" group is somewhat greater in number having a five year average of 3,792 but a compensation cost of \$707,676 which is the least costly of any type of accident (see Table 10).

TABLE 10
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO STEPPING ON AND
STRIKING OBJECTS

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
1935.....	3,487	57,581	\$766,409	(7) 21	557	2,909
1936.....	3,643	56,601	689,518	(3) 21	648	2,974
1937.....	4,090	56,462	677,516	(2) 21	660	3,409
1938.....	3,980	51,053	650,595	10	802	3,168
1939.....	3,762	58,287	754,240	(3) 16	796	2,950
Total — five years.....	18,962	279,964	\$3,538,378	(15) 89	3,463	15,410
Yearly average.....	3,792	55,993	\$707,676	(3) 17	693	3,082

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

The cause group entitled "Other and Indefinite" includes accidents due to miscellaneous causes which could not be classified with any one of the other groups and those accidents for which details were insufficient to make it possible to assign them to a specific classification. Injuries caused by animals, flying objects not set in motion by hand tools or machines in operation, windows, doors, and violence, were among the most important in this category. This group had an average of 3,578 cases with \$1,355,427 awarded in compensation (see Table 11). The average cost for this group of \$379 per case is a little above the average for all cases.

TABLE 11
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS DUE TO OTHER AND
INDEFINITE CAUSES

Cases closed in	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
1935.....	3,603	135,903	\$1,464,735	(13) 60	1,099	2,435
1936.....	3,692	127,658	1,308,879	(7) 67	1,161	2,464
1937.....	3,576	116,800	1,231,700	(4) 54	1,120	2,402
1938.....	3,568	117,762	1,438,512	(9) 54	1,140	2,374
1939.....	3,449	109,862	1,333,312	(7) 44	1,087	2,318
Total — five years.....	17,888	607,985	\$6,777,138	(40) 288	5,607	11,993
Yearly average.....	3,578	121,597	\$1,355,427	(8) 58	1,121	2,399

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

RELATIVE SEVERITY OF INJURIES FROM DIFFERENT CAUSES

The severity of injuries from different causes is determined by several factors. Certain types of accidents, such as those caused by vehicles, are fatal more often than others. Some accidents, for example those occurring in operating machines, often result in the loss of fingers or in severe permanent hand injuries. Others, such as falls from elevations, produce head and body injuries so severe that the healing period is long and the injured workers lose a great deal of time. A comprehensive examination of the kinds of disabilities, and the part of the body that is affected, in relation to the various causes of accidents will be found in Part III of Special Bulletin No. 208.

The relative severity of injuries in the various cause classifications is indicated according to two standards of measurement in Tables 12 to 15 on pages 18 to 24. Table 12 shows the number and per cent of accidents in each cause group that resulted in death or permanent total disability, permanent partial disability from a permanent handicap, or in temporary disablement. Comparative costs also give an indication of the relative severity of different kinds of injuries, but the number of weeks awarded is a more accurate measure of severity because it does not vary with wages paid in different occupations and different localities.

The number of weeks awarded for permanent partial disabilities is in accordance with schedules provided in the law theoretically representing the degree of permanent handicap. In temporary cases the number of weeks awarded shows the duration of the disability. The compensation amounts for these two kinds of disability are the actual awards made. On the other hand, the number of weeks shown for death and permanent total cases is determined on the basis of the standard weighting of 1,000 weeks for each case and their cost is given in terms of the estimated present value based on the age of the workers in permanent total disability cases and on the number and ages of the dependents in death cases.

Severity as Indicated by Kind of Disability

The percentages in Table 12 show that 1.1 to 1.2 per cent of all compensated cases in the four years analyzed were deaths or permanent total disabilities, about 0.1 per cent representing the number of permanent totals included. In other words, ten out of every 1,000 accidents that received compensation awards were fatal. The percentage of deaths has changed little from year to year. The number of permanent total disabilities has varied more, but the total number is too small to affect the percentages. Fatal cases are analyzed extensively in Special Bulletin No. 208, pages 23 to 25.

TABLE 12

NUMBER AND PERCENTAGE DISTRIBUTION OF COMPENSATED ACCIDENTS BY KIND OF DISABILITY AND CHIEF CAUSES

Causes of injuries	Total number of cases	Kind of disability						
		Death and permanent total*		Permanent partial		Temporary		
		Number	Per cent	Num-ber	Per cent	Num-ber	Per cent	
Cases Closed in 1936								
Handling Objects and Tools	27,900	(17)	104	0.4	6,154	22.1	21,642	77.5
Handling objects	23,004	(13)	92	0.4	4,486	19.5	18,426	80.1
Using hand tools	4,896	(4)	12	0.2	1,668	34.1	3,216	65.7
Falls of Workers	17,152	(30)	217	1.3	3,730	21.7	13,205	77.0
Falls to a different level	7,346	(20)	160	2.2	1,864	25.4	5,322	72.4
Falls on the same level	9,806	(10)	57	0.6	1,866	19.0	7,883	80.4
Mechanical Apparatus	9,532	(9)	117	1.2	4,499	47.2	4,916	51.6
Machinery, prime movers, etc.	7,971	(5)	38	0.5	3,789	47.5	4,144	52.0
Elevators, hoists and conveyors	1,561	(4)	79	5.1	710	45.5	772	49.4
Vehicles	5,800	(10)	257	4.4	1,717	29.6	3,826	66.0
Motor vehicles	4,903	(4)	196	4.0	1,512	30.8	3,195	65.2
All other vehicles	897	(6)	61	6.8	205	22.9	631	70.3
Dangerous and Harmful Substances	4,693	(6)	105	2.2	542	11.6	4,046	86.2
Electricity, explosives, heat, etc.	2,811	(4)	82	2.9	391	13.9	2,338	83.2
Harmful substances and occupational activity	1,882	(2)	23	1.2	151	8.0	1,708	90.8
Accidental injuries	898		14	1.6	118	12.9	768	85.5
Occupational diseases	984	(2)	9	0.9	55	5.6	940	95.5
Stepping On and Striking Objects	3,643	(3)	21	0.6	648	17.8	2,974	81.6
Falling Objects	3,046	(8)	46	1.5	983	32.3	2,017	66.2
Other and Indefinite	3,692	(7)	67	1.8	1,161	31.4	2,464	66.8
Total — All causes	75,458	(90)	934	1.2	19,434	25.8	55,090	73.0
Cases Closed in 1937								
Handling Objects and Tools	30,490	(14)	115	0.4	6,887	22.6	23,488	77.0
Handling objects	25,193	(11)	99	0.4	5,045	20.0	19,049	79.6
Using hand tools	5,297	(3)	16	0.3	1,842	34.8	3,439	64.9
Falls of Workers	17,698	(26)	241	1.4	4,111	23.2	13,346	75.4
Falls to a different level	7,796	(20)	199	2.6	2,006	25.7	5,501	71.7
Falls on the same level	9,902	(6)	42	0.4	2,105	21.3	7,755	78.3
Mechanical Apparatus	10,707	(6)	113	1.1	5,292	49.4	5,302	49.5
Machinery, prime movers, etc.	8,950	(3)	49	0.5	4,482	50.1	4,419	49.4
Elevators, hoists and conveyors	1,757	(3)	64	3.6	810	46.1	883	50.3
Vehicles	5,646	(14)	224	4.0	1,701	30.1	3,721	65.9
Motor vehicles	4,791	(11)	175	3.7	1,478	30.8	3,138	65.5
All other vehicles	855	(3)	49	5.7	223	26.1	583	68.2
Dangerous and Harmful Substances	5,448	(9)	150	2.7	635	11.7	4,663	85.6
Electricity, explosives, heat, etc.	3,095	(4)	111	3.6	448	14.5	2,536	81.9
Harmful substances and occupational activity	2,353	(5)	39	1.7	187	7.9	2,127	90.4
Accidental injuries	939	(5)	21	2.2	121	12.9	797	84.9
Occupational diseases	1,414	(2)	18	1.2	66	4.7	1,380	94.1
Stepping On and Striking Objects	4,090	(2)	21	0.5	660	16.1	3,409	83.4
Falling Objects	3,274	(6)	57	1.7	1,067	32.6	2,150	65.7
Other and Indefinite	3,576	(4)	54	1.5	1,120	31.3	2,402	67.2
Total — All causes	80,929	(81)	975	1.2	21,473	26.5	58,481	72.3

* Figures in parentheses show the number of permanent total disability cases included.

TABLE 12—(Concluded)

NUMBER AND PERCENTAGE DISTRIBUTION OF COMPENSATED ACCIDENTS BY KIND OF DISABILITY AND CHIEF CAUSES

Causes of injuries	Total number of cases	Kind of disability					
		Death and permanent total*		Permanent partial		Temporary	
		Number	Per cent	Number	Per cent	Number	Per cent
Cases Closed in 1938							
Handling Objects and Tools.	29,246	(14)	96	0.3	7,523	25.7	21,627
Handling objects.....	24,114	(12)	87	0.4	5,529	22.9	18,498
Using hand tools.....	5,132	(2)	9	0.2	1,994	38.8	3,129
Falls of Workers.	17,895	(21)	216	1.2	4,368	24.4	13,311
Falls to a different level.....	7,976	(12)	170	2.1	2,193	27.5	5,613
Falls on the same level.....	9,919	(9)	46	0.5	2,175	21.9	7,698
Mechanical Apparatus.	9,823	(9)	92	0.9	5,173	52.7	4,558
Machinery, prime movers, etc.....	8,013	(4)	25	0.3	4,267	53.3	3,721
Elevators, hoists and conveyors.....	1,810	(5)	67	3.7	906	50.1	837
Vehicles.	5,750	(15)	246	4.3	1,804	31.4	3,700
Motor vehicles.....	4,895	(11)	205	4.2	1,533	31.3	3,157
All other vehicles.....	855	(4)	41	4.8	271	31.7	543
Dangerous and Harmful Substances	5,246	(33)	187	3.6	671	12.8	4,388
Electricity, explosives, heat, etc.....	2,880	(5)	132	4.6	486	16.9	2,262
Harmful substances and occupational activity.....	2,366	(28)	55	2.3	185	7.8	2,126
Accidental injuries.....	925	(2)	13	1.4	140	15.1	772
Occupational diseases.....	1,441	(26)	42	2.9	45	3.1	1,354
Stepping On and Striking Objects.	3,980	10	0.3		802	20.2	3,168
Falling Objects.....	3,362	(10)	61	1.8	1,258	37.4	2,043
Other and Indefinite.....	3,568	(9)	54	1.5	1,140	32.0	2,374
Total — All causes.	78,870	(111)	962	1.2	22,739	28.8	55,169
							70.0
Cases Closed in 1939							
Handling Objects and Tools.	28,678	(13)	70	0.2	7,161	25.0	21,447
Handling objects.....	23,937	(8)	58	0.3	5,250	21.9	18,629
Using hand tools.....	4,741	(5)	12	0.3	1,911	40.3	2,818
Falls of Workers.	18,256	(24)	267	1.1	4,424	24.3	13,625
Falls to a different level.....	8,015	(14)	165	2.1	2,184	27.2	5,666
Falls on the same level.....	10,241	(10)	42	0.4	2,240	21.9	7,959
Mechanical Apparatus.	8,999	(11)	87	1.0	4,692	52.1	4,220
Machinery, prime movers, etc.....	7,389	(5)	29	0.4	3,946	53.4	3,414
Elevators, hoists and conveyors.....	1,610	(6)	58	3.6	746	46.3	806
Vehicles.	5,949	(12)	240	4.0	1,823	30.7	3,886
Motor vehicles.....	5,131	(10)	185	3.6	1,604	31.3	3,342
All other vehicles.....	818	(2)	55	6.7	219	26.8	544
Dangerous and Harmful Substances	5,113	(14)	145	2.8	724	14.2	4,244
Electricity, explosives, heat, etc.....	2,717	(4)	93	3.4	541	19.9	2,083
Harmful substances and occupational activity.....	2,396	(10)	52	2.2	183	7.6	2,161
Accidental injuries.....	874		18	2.1	119	13.6	737
Occupational diseases.....	1,522	(10)	34	2.2	64	4.2	1,424
Stepping On and Striking Objects.	3,762	(3)	16	0.4	796	21.2	2,950
Falling Objects.....	3,151	(3)	42	1.3	1,163	36.9	1,946
Other and Indefinite.....	3,449	(7)	44	1.3	1,087	31.5	2,318
Total — All causes.	77,357	(87)	851	1.1	21,870	28.3	54,636
							70.6

* Figures in parentheses show the number of permanent total disability cases included.

Among the non-fatal cases other than permanent total disabilities, the proportions have changed in that permanent partial cases have risen steadily from 20.7 per cent of the total in 1932 to 28.3 in 1939. Temporary disabilities have shown a corresponding decline dropping from 78.1 to 70.6 per cent of the total. This should not be taken to mean that industrial accidents as a whole have grown more serious, but that the proportion of minor short-time injuries has declined. Studies of the kinds of injuries indicate that better medical care and better first-aid facilities have resulted in a decrease in short-time disabilities, thus increasing the percentage of long-time disabilities in the total number. In many cases where workmen formerly would have been compensated for a few days lost time, they now lose no time at all or less than seven days which does not constitute compensable disability under the law.

For this discussion it is assumed that the percentages in Table 12 for cases closed in 1939 most nearly represent the present relation of the different kinds of disability which accompany the various cause types. On this basis, accidents of average severity are those where not more than 1.1 per cent of the total resulted in death or permanent total disability, and not more than 28.3 per cent caused permanent partial disability, while 70.6 per cent of the injured workmen recovered completely.

The percentages in Table 12 show that the excessively high cost of injuries caused by elevators, hoists and conveyors and by vehicles other than motor vehicles was due to a large number of death and permanent total disabilities. The ratio of these costly cases in the four years ranged from 36 to 51 out of every 1,000 compensated cases in the "Elevators, Hoists and Conveyors" group and from 48 to 68 out of every 1,000 in the group "All Other Vehicles."

Of the disabilities caused by vehicles other than motor vehicles in 1939, 26.8 per cent were permanent partial. Only 50.1 per cent of the disabilities in the first and 66.5 per cent in the second of these classifications were temporary.

Injuries or diseases caused by "Dangerous and Harmful Substances" resulted in a relatively large number of deaths but few permanent partial injuries. In this group, 3.4 per cent of the compensated injuries caused by electricity, explosives and hot substances and 2.2 per cent of those caused by harmful substances in 1939 were fatal or serious enough to totally incapacitate the workers. However, nearly 77 per cent of the former and over 90 per cent of the latter were temporary.

Injuries caused by machinery and those caused by falling objects were of more than average severity because many of them were permanent partial. This is particularly true of machine accidents, over 50 per cent of which caused permanent partial disability. Machines, however, caused comparatively few deaths.

Injuries resulting from handling objects and those from stepping on and striking objects were less severe than those from the other main accident causes. About 75 per cent of the injuries in each of these two groups were temporary including many of relatively short duration. Less than one-half of one per cent were fatal and the permanent partial cases were well under the ratio for all cases.

TABLE 13
PERCENTAGE DISTRIBUTION OF NUMBER AND COST OF COMPENSATED
ACCIDENTS BY CHIEF CAUSES
Yearly Average, Cases Closed 1935-1939

Causes of injuries	Cases		Compensation cost*	
	Number	Per cent of total	Amount	Per cent of total
Handling Objects and Tools.	28,292	37.0	\$5,794,252	21.5
Handling objects.....	23,337	30.5	4,659,036	17.3
Using hand tools.....	4,955	6.5	1,135,216	4.2
Falls of Workers.	17,436	22.8	7,959,912	29.6
Falls to a different level.....	7,637	10.0	5,034,360	18.7
Falls on the same level.....	9,799	12.8	2,925,552	10.9
Mechanical Apparatus.	9,556	12.5	4,120,024	15.3
Machinery, prime movers, etc.....	7,933	10.4	2,831,595	10.5
Elevators, hoists and conveyors.....	1,623	2.1	1,288,429	4.8
Vehicles.	5,746	7.5	3,723,966	13.9
Motor vehicles.....	4,904	6.4	3,028,969	11.3
All other vehicles.....	842	1.1	694,997	2.6
Dangerous and Harmful Substances and Occupational Activity.	4,918	6.4	1,948,383	7.3
Electricity, explosives, heat, etc.....	2,814	3.7	1,285,668	4.8
Harmful substances.....	2,104	2.7	662,715	2.5
Accidental injuries.....	893	1.1	277,438	1.1
Occupational diseases.....	1,211	1.6	385,277	1.4
Stepping On and Striking Objects.	3,792	5.0	707,676	2.6
Falling Objects.	3,159	4.1	1,300,213	4.8
Other and Indefinite.	3,578	4.7	1,355,427	5.0
Total — All Causes.....	76,477	100.0	\$26,909,853	100.0

* Includes the estimated present value for each death and permanent total disability case.

Severity as Indicated by Number of Weeks Awarded

The number of weeks awarded for temporary disability shows the amount of time lost before the injured employees recovered sufficiently to be able to return to work and in permanent partial disability it represents the theoretical equivalent of the permanent handicap with which they returned to work. Table 14 shows the total number of weeks awarded for permanent partial and temporary disabilities and the average weeks per case in each cause classifica-

TABLE 14
SEVERITY OF PERMANENT PARTIAL AND TEMPORARY INJURIES
BY CHIEF CAUSES

Causes of injuries	Permanent partial			Temporary		
	Number of cases	Number of weeks awarded	Average weeks per case	Number of cases	Number of weeks awarded	Average weeks per case
Cases closed in 1936						
Handling Objects and Tools	6,154	1205,274	33.4	21,642	129,713	6.0
Handling objects.....	4,486	151,326	33.7	18,426	119,023	6.5
Using hand tools.....	1,668	55,948	32.3	3,216	10,690	3.3
Falls of Workers	3,730	294,511	79.0	13,205	130,814	9.9
Falls to a different level.....	1,864	189,019	101.4	5,322	67,559	12.7
Falls on the same level.....	1,866	105,492	56.5	7,883	63,255	8.0
Mechanical Apparatus	4,499	215,538	47.9	4,916	26,690	5.4
Machinery, prime movers, etc.....	3,789	158,239	41.8	4,144	18,133	4.4
Elevators, hoists and conveyors.....	710	57,299	80.7	772	8,557	11.1
Vehicles	1,717	106,247	61.9	3,826	36,960	9.7
Motor vehicles.....	1,512	89,287	59.1	3,195	31,861	10.0
All other vehicles.....	205	16,960	82.7	631	5,099	8.1
Dangerous and Harmful Substances	542	40,506	74.7	4,046	23,050	5.7
Electricity, explosives, heat, etc.....	391	28,455	72.8	2,338	11,138	4.8
Harmful substances and occupational activity.....	151	12,051	79.8	1,708	11,912	7.0
Accidental injuries.....	116	8,006	69.0	768	2,827	3.7
Occupational diseases.....	35	4,045	115.6	940	9,085	9.7
Stepping On and Striking Objects	648	22,270	34.4	2,974	13,331	4.5
Falling Objects	983	46,545	47.3	2,017	19,276	9.6
Other and Indefinite	1,161	45,262	39.0	2,464	15,396	6.2
Total — All Causes	19,434	976,153	50.2	55,090	395,230	7.2

Cases closed in 1937						
Causes of injuries	Number of cases	Number of weeks awarded	Average weeks per case	Number of cases	Number of weeks awarded	Average weeks per case
Handling Objects and Tools	6,887	192,317	27.9	23,488	145,150	6.2
Handling Objects.....	5,045	136,126	27.0	20,049	134,420	6.7
Using hand tools.....	1,842	56,191	30.5	3,439	10,730	3.1
Falls of Workers	4,111	272,221	66.2	13,346	136,098	10.2
Falls to a different level.....	2,006	165,491	82.5	5,591	73,483	13.1
Falls on the same level.....	2,105	106,730	50.7	7,755	62,615	8.1
Mechanical Apparatus	5,292	211,494	40.0	5,302	27,902	5.3
Machinery, prime movers, etc.....	4,482	165,594	36.9	4,419	18,170	4.1
Elevators, hoists and conveyors.....	810	45,900	56.7	883	9,732	11.0
Vehicles	1,701	93,808	55.1	3,721	37,445	10.1
Motor vehicles.....	1,478	79,898	54.1	3,138	32,771	10.4
All other vehicles.....	223	13,910	62.4	583	4,674	8.0
Dangerous and Harmful Substances	635	42,591	67.1	4,663	25,836	5.5
Electricity, explosives, heat, etc.....	448	27,131	60.6	2,536	9,357	3.7
Harmful substances and occupational activity.....	187	15,460	82.7	2,127	16,479	7.7
Accidental injuries.....	121	8,711	72.0	797	3,552	4.2
Occupational diseases.....	66	6,749	102.3	1,330	13,127	9.9
Stepping On and Striking Objects	660	19,421	29.4	3,409	16,041	4.7
Falling Objects	1,067	41,101	38.5	2,150	20,302	9.4
Other and Indefinite	1,120	45,038	40.2	2,402	17,762	7.4
Total — All Causes	21,473	917,991	42.8	58,481	426,536	7.3

tion for each of the four years 1936 to 1939. The averages vary from year to year but there was an upward trend in average weeks awarded for temporary disability. As explained on page 20 this should not be taken to mean that accidents are becoming more severe.

TABLE 14 — (Concluded)
SEVERITY OF PERMANENT PARTIAL AND TEMPORARY INJURIES
BY CHIEF CAUSES

Causes of injuries	Permanent partial			Temporary		
	Number of cases	Number of weeks awarded	Average weeks per case	Number of cases	Number of weeks awarded	Average weeks per case
Cases closed in 1938						
Handling Objects and Tools	7,523	215,473	28.6	21,627	153,808	7.1
Handling objects	5,529	150,835	28.9	18,498	143,178	7.7
Using hand tools	1,994	55,638	27.9	3,129	10,630	3.4
Falls of Workers	4,368	293,857	67.3	13,311	170,265	12.8
Falls to a different level	2,193	180,596	82.4	5,613	97,101	17.3
Falls on the same level	2,175	113,261	52.1	7,698	73,164	9.5
Mechanical Apparatus	5,173	207,463	40.1	4,558	28,107	6.2
Machinery, prime movers, etc.	4,267	162,505	38.1	3,721	17,144	4.6
Elevators, hoists and conveyors	906	44,958	49.6	837	10,963	13.1
Vehicles	1,804	100,269	55.6	3,700	43,099	11.6
Motor vehicles	1,533	84,217	54.9	3,157	37,463	11.9
All other vehicles	271	16,052	59.2	543	5,636	10.4
Dangerous and Harmful Substances	671	42,389	63.2	4,388	33,945	7.7
Electricity, explosives, heat, etc.	486	30,919	63.6	2,262	10,539	4.7
Harmful substances and occupational activity	185	11,470	62.0	2,126	23,406	11.0
<i>Accidental injuries</i>	140	7,897	56.4	772	3,397	4.4
<i>Occupational diseases</i>	45	3,573	79.4	1,354	20,009	14.8
Stepping On and Striking Objects	862	23,170	28.9	3,168	17,883	5.6
Falling Objects	1,258	44,362	35.3	2,043	25,058	12.3
Other and Indefinite	1,140	42,017	36.9	2,374	21,745	9.2
Total — All Causes	22,739	969,000	42.6	55,169	493,910	9.0
Cases closed in 1939						
Handling Objects and Tools	7,161	199,630	27.9	21,447	173,239	8.1
Handling objects	5,250	145,262	27.7	18,629	160,457	8.6
Using hand tools	1,911	54,368	28.5	2,818	12,782	4.5
Falls of Workers	4,424	295,206	66.7	13,625	188,418	13.8
Falls to a different level	2,184	180,942	82.8	5,668	106,445	18.8
Falls on the same level	2,240	114,264	51.0	7,959	81,973	10.3
Mechanical Apparatus	4,692	184,664	39.4	4,220	34,900	8.3
Machinery, prime movers, etc.	3,946	144,736	36.7	3,414	18,287	5.4
Elevators, hoists and conveyors	740	39,928	53.5	806	16,613	20.6
Vehicles	1,823	107,205	58.8	3,886	50,238	12.9
Motor vehicles	1,604	94,068	58.6	3,342	44,919	13.4
All other vehicles	219	13,137	60.0	544	5,319	9.8
Dangerous and Harmful Substances	724	46,014	63.6	4,244	39,490	9.3
Electricity, explosives, heat, etc.	541	34,100	63.0	2,083	11,653	5.6
Harmful substances and occupational activity	183	11,914	65.1	2,161	27,837	12.9
<i>Accidental injuries</i>	119	8,112	51.4	737	3,960	5.4
<i>Occupational diseases</i>	64	5,802	90.7	1,424	23,887	16.8
Stepping On and Striking Objects	796	24,202	30.4	2,950	18,065	6.1
Falling Objects	1,163	45,226	38.9	1,946	27,890	14.3
Other and Indefinite	1,087	42,482	39.1	2,318	23,380	10.1
Total — All Causes	21,870	944,629	43.2	54,636	555,620	10.2

The lowest average awards, 7.2 weeks in temporary cases, were made in 1936 and the same year had the highest awards for permanent partial disability, which averaged 50.2. These may be compared with the five-year averages given in Table 15 of 8.3 and 45.5 respectively.

It was pointed out in the preceding section discussing the severity of compensated injuries as indicated by kind of disability that accidents involving elevators, hoists and conveyors, vehicle accidents and falls to a different level were severe and costly because they caused a relatively large number of deaths and permanent injuries. These were also serious in that they caused more than the average amount of lost time from non-fatal injuries. The average award for all permanent partial disabilities was 45.5 weeks per case and for temporary disabilities it was 8.3 weeks per case. In contrast, the average awards for permanent partial disabilities from the accident causes, "Elevators, Hoists and Conveyors," "Occupational Diseases," and "Falls to a Different Level" were 61.3, 99.3 and 90.3 weeks per case, respectively, while the awards for temporary disabilities from these causes were 13.9, 13.2, and 15.3 weeks per case.

High average awards of 55.9 and 66.2 weeks per case were made for permanent partial disabilities in both subdivisions of vehicles and the number of these impairments were relatively large. Yearly averages for the five-year period 1935-1939 are presented in Table 15.

TABLE 15
NUMBER AND SEVERITY OF PERMANENT PARTIAL AND TEMPORARY
DISABILITIES BY CHIEF CAUSES
Yearly Average, Cases Closed 1935-1939

Causes of injuries	Permanent partial		Temporary	
	Number of cases	Average weeks per case	Number of cases	Average weeks per case
Handling Objects and Tools.	6,596	29.9	21,602	6.8
Handling objects.	4,834	29.8	18,422	7.3
Using hand tools.	1,762	30.1	3,180	3.6
Falls of Workers.	4,035	71.8	13,178	11.6
Falls to a different level.	1,998	90.3	5,465	15.3
Falls on the same level.	2,037	53.6	7,713	9.0
Mechanical Apparatus.	4,708	42.3	4,744	6.0
Machinery, prime movers, etc.	3,955	38.7	3,941	4.5
Elevators, hoists and conveyors.	753	61.3	803	13.9
Vehicles.	1,738	57.2	3,766	11.3
Motor vehicles.	1,512	55.9	3,203	11.6
All other vehicles.	226	66.2	563	10.2
Dangerous and Harmful Substances and Occupational Activity.	608	65.9	4,172	6.9
Electricity, explosives, heat, etc.	444	63.2	2,272	4.6
Harmful substances.	164	73.3	1,900	9.7
Accidental injuries.	117	62.9	758	4.4
Occupational diseases.	47	99.3	1,148	13.2
Stepping On and Striking Objects.	593	32.3	3,082	5.1
Falling Objects.	1,081	40.8	2,029	11.0
Other and Indefinite.	1,121	40.3	2,399	7.8
Total — All Causes.	20,580	45.5	54,972	8.3

Machinery and falling objects caused injuries of which a large percentage were permanent partial disabilities, but the awards for these averaged only 38.7 and 40.8 weeks per case, respectively, as compared with an average of 45.5 weeks for all permanent partial cases. In other words, although the number of permanent injuries from these two causes was relatively large they were much less serious than those caused by such accidents as falls to a different level. Temporary injuries from machine accidents were also of less than average severity, the awards amounting to 4.5 weeks per case, but those caused by falling objects averaged 11.0 weeks per case.

Falls on the same level often cause severe injuries as is shown by the average awards of 53.6 weeks per case for permanent partial disabilities and 9.0 weeks per case for temporary disabilities. Accidents connected with handling objects, using hand tools, and stepping on or striking objects were the least severe as measured by number of weeks awarded per case. The permanent partial disabilities in these three cause groups averaged 29.8, 30.1 and 32.3 weeks per case while the temporary disabilities averaged 7.3, 3.6 and 5.1 weeks per case, respectively.

TREND IN NUMBER OF ACCIDENTS IN DIFFERENT CAUSE GROUPS

The trend in number of accidents from different causes may be seen in Table 16 by comparing the number of cases closed in each of the four years, 1936 to 1939, with the average for the five years, 1931 to 1935, and with the figures for cases closed in 1936 which show the beginning of an increase in accident numbers following increases in employment. The figures for the years since 1937 show that the trend in number of accidents from all causes has reversed.

Data are not available to permit a comparison of the changes in number of accidents with the extent of employment or unemployment in terms of accident frequency rates. It is obvious that the reduction in the number of workers exposed to the hazards of industry during the "depression" years was a factor in the decline in number of industrial accidents. There is also some indication that a better control of frequency of some types of accidents has been achieved but any conclusion on this point is necessarily obscured by fluctuations in number of workers exposed to the hazards involved. It must be remembered that these data refer to cases closed in the years under discussion and that the accidents occurred from several months to a year or more before the closing dates. Long healing periods and serious after-effects resulting in permanent handicaps sometimes cause long delays before final settlement can be reached. The cases closed in any one year, therefore, cannot be compared with any single previous year of employment.

Compensated injuries from some causes have declined more than others as is shown by the indexes in Table 16 which are based on the average for the five-year period 1931 to 1935 as 100. This indicates some progress in controlling certain types of accidents while other types are still increasing in relative frequency.

The earlier period, 1931-1935, had about 2,500 more cases than

the average of more recent years. Among the causes that contributed to this reduction of 2,500 cases, and the amount of the decreases were: vehicles, 1,431; falling objects, 804; and handling objects and tools, 561. On the other hand the number of cases increased in certain classifications but to a lesser degree; harmful substances had 564 more accidents and falls on the same level, 611.

Examination of the data in this table shows that one year only, 1937, had more than the average of the five-year period used as a base.

TABLE 16
TREND IN NUMBER OF COMPENSATED ACCIDENTS BY CHIEF CAUSES
All disabilities

Causes of injuries	Average 1931 to 1935	Cases closed in			
		1936	1937	1938	1939
Handling Objects and Tools	28,853	27,900	30,490	29,246	28,678
Handling objects.....	23,008	23,004	25,193	24,114	23,937
Using hand tools.....	5,845	4,896	5,297	5,132	4,741
Falls of Workers	17,096	17,152	17,698	17,895	18,256
Falls to a different level.....	7,908	7,346	7,796	7,976	8,015
Falls on the same level.....	9,188	9,806	9,902	9,919	10,241
Mechanical Apparatus	9,810	9,532	10,707	9,823	8,999
Machinery, prime movers, etc.....	8,185	7,971	8,950	8,013	7,389
Elevators, hoists and conveyors.....	1,625	1,561	1,757	1,810	1,610
Vehicles	7,177	5,800	5,646	5,750	5,949
Motor vehicles.....	6,012	4,903	4,791	4,895	5,131
All other vehicles.....	1,165	897	855	855	818
Dangerous and Harmful Substances and Occupational Activity	4,454	4,693	5,448	5,246	5,113
Electricity, explosives, heat, etc.....	2,934	2,811	3,095	2,880	2,717
Harmful substances.....	1,520	1,882	2,353	2,366	2,396
Accidental injuries.....	1,058	898	939	925	874
Occupational diseases.....	462	984	1,414	1,441	1,522
Stepping On and Striking Objects	3,846	3,643	4,090	3,980	3,762
Falling Objects.....	3,963	3,046	3,274	3,362	3,151
Other and Indefinite.....	3,807	3,692	3,576	3,568	3,449
Total — All Causes	79,006	75,458	80,929	78,870	77,357

Index Numbers with Average 1931 to 1935 as 100

Handling Objects and Tools	100.0	96.7	105.7	101.4	99.4
Handling objects.....	100.0	100.0	109.5	104.8	104.0
Using hand tools.....	100.0	83.8	90.6	87.8	81.1
Falls of Workers	100.0	100.3	103.5	104.7	106.8
Falls to a different level.....	100.0	92.9	98.6	100.9	101.4
Falls on the same level.....	100.0	106.7	107.8	108.0	111.5
Mechanical Apparatus	100.0	97.2	109.1	100.1	91.7
Machinery, prime movers, etc.....	100.0	97.4	109.3	97.9	90.3
Elevators, hoists and conveyors.....	100.0	96.1	108.1	111.4	99.1
Vehicles	100.0	80.8	78.7	80.1	82.9
Motor vehicles.....	100.0	81.6	79.7	81.4	85.3
All other vehicles.....	100.0	77.0	73.4	73.4	70.2
Dangerous and Harmful Substances and Occupational Activity	100.0	105.4	122.3	117.8	114.8
Electricity, explosives, heat, etc.....	100.0	95.8	105.5	98.2	92.6
Harmful substances.....	100.0	123.8	154.8	155.7	157.6
Accidental injuries.....	100.0	84.9	88.8	87.4	82.6
Occupational diseases.....	100.0	213.0	306.1	311.9	329.4
Stepping On and Striking Objects	100.0	94.7	106.3	103.5	97.8
Falling Objects.....	100.0	76.9	82.6	84.8	79.5
Other and Indefinite.....	100.0	97.0	93.9	93.7	90.6
Total — All Causes	100.0	95.5	102.4	99.8	97.9

CHIEF CAUSES OF ACCIDENTS IN DIFFERENT INDUSTRIES

The different industries in which the compensated accidents occurred are divided into main groups as follows:

Manufacturing—This includes all kinds of work connected with the various processes of manufacturing and all incidental work such as the care of the buildings and machinery used, work in the yard, etc. It does not include the regular office and clerical work which is classified as service or transportation of raw materials and finished products to or from the plant which is classified as transportation.

Construction—This includes building erection and demolition and other forms of construction work, such as road and sewer building, installation of machinery and fixtures away from the plant, and plumbing. It also includes ship building.

Transportation and Public Utilities—Transportation is the conveyance of passengers and freight by any type of vehicle. It includes the transporting of persons to or from work and of materials to or away from the place where the work is done in all industries. It does not include taking materials or products from one building to another in the same plant. Plants generating electricity, gas and steam, water works, sewage disposal, etc., are included in public utilities.

Service—This includes all work in hotels and restaurants; care of apartment houses, office and public buildings, etc.; theatres and other places of amusement; personal, domestic and professional service; outside salesmen, messengers and other workers; office work in all industries; and public employment other than construction work.

Trade—This includes all mercantile establishments, garages and warehouses except offices.

Mining and Quarrying.

Agriculture.

Indefinite.

The last three named above are tabulated together as "other industries" because they are relatively small groups.

The number and compensation cost of compensated accidents in each of these main industrial divisions are shown in Table 17 which follows.

The number and compensation cost of injuries that befall employed persons are given in Table 17 for each of the principal industrial groups. Yearly data for 1936 to 1939 and averages for the five-year period 1935 to 1939 are tabulated. A brief discussion of the accidents in each industry group follows. For a more detailed treatment of accidents in the various industries see Special Bulletin No. 208 pages 41 to 59.

Compensated Accidents in Manufacturing

The manufacturing industries ranked first in number of compensated injuries and first in average total compensation cost but lower than any other industry group except trade in average cost per

case. Although first in total number of injuries, manufacturing was fourth among the main industries in number of industrial deaths and permanent total disabilities which were only seven-tenths of one per cent of the compensated cases in this industry. In the five years, 1935 to 1939, the average number of factory accidents was 23,781 a year at a compensation cost of \$6,844,041 or \$288 a case (see Table 17). The year since 1935 in which the smallest number of cases in manufacturing industries was closed was 1939 when the total had dropped to 22,290. This decrease in number of factory accidents during 1939 was largely the result of the low level of factory employment during the period when most of the accidents occurred i.e., 1938. A significant decrease in number of machine accidents also contributed to the reduction. Although machine accidents have shown a notable decline in number, they are still an outstanding cause of compensated injuries in manufacturing industries.

An average of 5,836 power machine accidents were compensated in manufacturing industries during 1935-1939. The metal working shops contributed 1,920 to this total. This is practically one-third of the machine accidents in this industry.

The operation of textile machines was responsible for about one-fifth of the machine accidents. These as a rule are less serious than the metal working machine accidents. Woodworking machines were third in numerical importance having a yearly average of 767 during this period.

The distribution of factory accidents by cause presented in Table 18 shows that in 1936-1939 handling objects and machines caused more than a third of all compensated injuries. Handling objects and tools averaged 8,970 injuries of which 7,417 were due to handling objects other than tools; and mechanical apparatus caused 6,643 of which 6,158 were due to machinery other than elevators, hoists and conveyors.

A yearly average of 173 workers died during 1935-1939 of injuries received while engaged in manufacturing activities. The relative number of lives lost was not large nor was the compensation cost high. There was considerable variation in mortality during this period, the number of deaths ranging from 150 in 1938 to 207 in 1937.

Injuries resulting from falls on the same level or from elevated work places were third in numerical importance as a cause of accidents in this industry. They averaged 3,664 of which 2,413 were falls on the same level and 1,251 to a lower level.

The remaining main cause classifications included about one-fifth of the manufacturing accidents. The most important of these were dangerous and harmful substances with an average of 1,872 and stepping on and striking objects with a total of 1,213 injuries. The detailed tables in the appendix show that the accidents due to the handling and use of explosive material have a high fatality rate and merit careful consideration. In 1939 these deaths amounted to about 8 per cent of all the accidents due to explosives. Vehicle

accidents caused much the lowest number of compensated injuries in the manufacturing industries.

TABLE 17
NUMBER AND COST OF COMPENSATED ACCIDENTS BY INDUSTRY GROUPS

Industry group	Number of cases	Weeks awarded*	Amount of compensation*	Average cost per case
Cases closed in 1936				
Manufacturing.....	(188) 23,488	581,771	\$7,039,877	\$300
Service industries.....	(279) 17,676	584,826	5,831,546	330
Transportation and public utilities.....	(198) 12,906	419,813	4,852,657	376
Construction.....	(168) 10,939	452,447	5,554,447	508
Trade.....	(77) 9,104	212,200	2,311,349	254
Other industries.....	(24) 1,345	54,326	527,431	392
Total — All Industries.....	(934) 75,458	2,305,383	\$26,117,307	\$346
Cases closed in 1937				
Manufacturing.....	(207) 27,077	606,044	\$7,329,735	\$271
Service industries.....	(260) 17,599	561,393	5,684,564	323
Transportation and public utilities.....	(201) 12,762	405,440	4,699,697	368
Construction.....	(219) 12,685	500,105	5,881,140	464
Trade.....	(59) 9,344	191,607	2,191,624	235
Other industries.....	(29) 1,462	54,938	548,930	375
Total — All Industries.....	(975) 80,929	2,319,527	\$26,335,690	\$325
Cases closed in 1938				
Manufacturing.....	(150) 24,426	559,965	\$7,229,600	\$266
Service industries.....	(241) 18,601	573,525	6,218,540	334
Construction.....	(278) 12,843	603,981	7,384,491	575
Transportation and public utilities.....	(186) 12,138	392,662	4,665,787	394
Trade.....	(68) 9,270	222,130	2,585,307	279
Other industries.....	(39) 1,592	72,647	636,078	400
Total — All Industries.....	(962) 78,870	2,424,910	\$28,719,803	\$364
Cases closed in 1939				
Manufacturing.....	(157) 22,290	542,028	\$6,699,234	\$301
Service industries.....	(220) 19,016	577,656	6,317,842	332
Construction.....	(188) 13,045	530,322	6,559,337	503
Transportation and public utilities.....	(193) 12,765	423,049	5,250,686	411
Trade.....	(61) 8,894	215,930	2,571,909	289
Other industries.....	(32) 1,347	62,264	572,349	425
Total — All Industries.....	(851) 77,357	2,351,249	\$27,971,357	\$362
Average 1935-1939				
Manufacturing.....	(173) 23,781	559,267	\$6,844,041	\$288
Service industries.....	(251) 17,988	570,752	5,951,439	331
Transportation and public utilities.....	(195) 12,442	408,296	4,835,412	389
Construction.....	(211) 11,758	514,350	6,336,337	539
Trade.....	(67) 9,118	208,888	2,390,357	262
Other industries.....	(28) 1,390	57,360	552,267	397
Total — All Industries.....	(925) 76,477	2,318,913	\$26,909,853	\$352

* Includes the standard weighting of 1000 weeks and the estimated present value for each death and permanent total disability case.

NOTE: Figures in parentheses indicate the number of death and permanent total cases included.

Compensated Accidents in Construction

High wages paid construction workers contributed somewhat to the high cost of construction accidents but most of it was due to the severity of the injuries which included a relatively high proportion of deaths and many of the most serious permanent partial and temporary disabilities. Prior to 1932, construction was second in total number of compensated injuries and first in number of fatal injuries. Since that time, it has dropped to fourth in total number of injuries and second in number of deaths.

The average yearly cost of compensated construction accidents was only half a million less than those of manufacturing and yet the construction accidents were only about half as many. This is reflected in the average cost of these accidents, \$539 for construction, \$288 for manufacturing.

Fatalities in construction averaged 211 per year which was second only to service in actual number, but total service accidents were almost 50 per cent greater in number.

The yearly average number of construction accidents compensated during 1935-1939 was 11,758 costing \$6,336,337 which is close to the 1932-1935 average of 11,719 cases costing \$6,484,314.

The construction accidents compensated during 1936-1939 are tabulated by accident causes in Table 18. In construction as in other industries, handling objects and tools caused the greatest number of injuries but these were among the least severe in building work.

Falls caused the most serious and costly injuries in construction. Falls to a different level were more numerous than falls on the same level and averaged 2,049 a year while those on the same level amounted to 1,302 a year. Falls to a different level in construction industries caused particularly severe injuries because many were from high elevations, such as ladders, scaffolds and parts of buildings. Falls from scaffolds and stagings, and falls from ladders were nearly equal in number, 576 and 535 respectively. The data for the former has shown an upward trend during the past five years rising from 446 in 1935 to 638 in 1939. Falls from ladders and falls from other elevations also rose steadily, the former from 457 in 1935 to 570 in 1939 and the latter from 678 to 1,014. The yearly increases were in harmony with the trend for all accidents in this industry.

Compensated Accidents in Service Industries

The service industry group is composed of all hotel and restaurant work, care and cleaning of buildings, window and other cleaning industries, personal and professional service, clerical work, and public employment. This industry group was second in number of compensated injuries in 1935-1939 while prior to 1935 it was fourth. The number in these five years amounted to 17,988 cases per year. This industry group had the largest number of fatal injuries. Compensation for service industries accidents amounted to \$5,951,439 a year, or \$331 a case. The great increase in number of accidents in the service industries in recent years is probably due

to a combination of causes, chiefly an actual increase in the number of persons permanently employed in service industries particularly care of office and apartment buildings and public employment, and a temporary increase due to emergency measures providing work for the unemployed. The highest number of cases closed in service industries during recent years was reached in 1939 and totaled 19,016 (see Table 17).

Falls of workers and handling objects and tools were the two outstanding causes of injuries in service industries and were nearly equal in number. The first group was nearly equally divided between falls to a different level and falls on the same level. Falls were a larger proportion of the accidents in the service industry group than in any other main industry. Falls comprised 33 per cent of its accidents as compared with 27 per cent of the construction accidents, 22 per cent of the accidents in trade and only 15 per cent of those in manufacturing. Falls were also much more serious than the accidents in handling objects and tools.

Accidents in handling objects averaged 4,752 per year during 1935-1939. Two-thirds of them, 3,172, were caused by heavy and bulky objects that were so heavy that the worker suffered a disabling strain, or the object slipped and struck the employee. Most of the other accidents, 1,457, were due to handling sharp and rough objects. Such accidents for the most part produced less serious injuries, such as cuts, punctures and lacerations, of the hands usually. In this cause group are included 123 cases that resulted from using hand trucks, carts, etc. Dangerous and harmful substances were third among the causes of compensated injuries in the service industries and averaged 1,633 a year. These included 1,081 cases of burns and other injuries caused by electricity, explosions and hot substances, particularly hot water used in cleaning, and hot foods in restaurants and hotels. Chemical burns from acids, alkalies and cleaning preparations, dermatitis and other poisoning from corrosive and poisonous substances, occupational dermatitis and other occupational diseases numbered 552 a year.

Vehicle accidents were fourth in numerical importance averaging 1,082 a year but their cost was greater than in any other cause group except falls. About 6 per cent or 68 of these resulted in death or permanent total disability.

Table 18 gives the cause distribution of the compensated accidents in service industries showing the number of cases, and percentages for the four years, 1936-1939.

Injuries due to hot substances and flames are quite common in the service industries. Waiters and cooks in hotels and restaurants, etc., are often burned by handling hot water, coffee, soup, and other hot foods. These burns are, as a whole, not serious yet they do constitute a hazard somewhat more prevalent in service industries than in other pursuits. Janitors of apartment houses are especially subject to burns which they receive when tending furnaces. Sometimes when coal is thrown in the fire a back-fire of accumulated gas occurs which often inflicts severe burns upon the employee.

TABLE 18
PERCENTAGE DISTRIBUTION OF COMPENSATED ACCIDENTS BY CAUSE AND
INDUSTRY GROUPS

Causes of injuries	Cases closed in								Total cases 1936-1939	
	1936		1937		1938		1939			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Manufacturing Industries										
Handling Objects and Tools.....	8,497	36.2	9,906	36.6	9,155	37.5	8,324	37.4	35,882	36.9
Handling objects.....	6,983	20.7	8,145	30.1	7,501	30.7	7,038	31.6	29,667	30.5
Using hand tools.....	1,514	6.5	1,761	6.5	1,654	6.8	1,286	5.8	6,215	6.4
Falls of Workers.....	3,500	14.9	3,937	14.5	3,747	15.3	3,472	15.6	14,656	15.1
Falls to a different level.....	1,213	5.2	1,377	5.1	1,253	5.1	1,160	5.2	5,003	5.2
Falls on the same level.....	2,287	9.7	2,560	9.4	2,494	10.2	2,312	10.4	9,653	9.9
Mechanical Apparatus.....	6,599	28.1	7,531	27.8	6,535	26.8	5,908	26.5	26,573	27.3
Machinery, prime movers, etc.....	6,127	26.1	6,973	25.7	6,031	24.7	5,499	24.7	24,630	25.3
Elevators, hoists and conveyors.....	472	2.0	558	2.1	504	2.1	409	1.8	1,943	2.0
Vehicles.....	284	1.2	359	1.3	327	1.3	249	1.1	1,219	1.3
Motor vehicles.....	173	0.7	230	0.8	184	0.7	161	0.7	748	0.8
All other vehicles.....	111	0.5	120	0.5	143	0.6	88	0.4	471	0.5
Dangerous and Harmful Substances and Occupational Activity.....	1,760	7.4	2,165	8.0	1,778	7.3	1,784	8.0	7,487	7.7
Electricity, explosives, heat, etc.....	954	4.0	1,141	4.2	914	3.8	822	3.7	3,831	3.9
Harmful substances.....	806	3.4	1,024	3.8	864	3.5	962	4.3	3,656	3.8
Accidental injuries.....	291	1.2	309	1.2	244	1.0	251	1.1	1,095	1.1
Occupational diseases.....	515	2.2	715	2.6	620	2.5	711	3.2	2,561	2.7
Stepping On and Striking Objects.....	1,199	5.1	1,347	5.0	1,231	5.0	1,077	4.8	4,854	5.0
Falling Objects.....	976	4.2	1,123	4.2	1,007	4.1	830	3.7	3,936	4.0
Other and Indefinite.....	673	2.9	709	2.6	646	2.7	645	2.9	2,674	2.7
Total — All Causes.....	23,488	100.0	27,077	100.0	24,426	100.0	22,290	100.0	97,281	100.0
Service Industries										
Handling Objects and Tools.....	5,570	31.5	5,700	32.4	5,840	31.4	6,023	31.7	23,133	31.7
Handling objects.....	4,643	26.3	4,732	26.9	4,911	26.4	5,088	26.8	19,374	26.6
Using hand tools.....	927	5.2	968	5.5	929	5.0	935	4.9	3,759	5.1
Falls of Workers.....	5,945	33.6	5,701	32.4	6,044	32.5	6,324	33.2	24,014	32.9
Falls to a different level.....	2,711	15.3	2,721	15.5	2,883	15.5	2,974	15.6	11,289	15.5
Falls on the same level.....	3,234	18.3	2,980	16.9	3,161	17.0	3,350	17.6	12,725	17.4
Mechanical Apparatus.....	931	5.3	929	5.3	1,015	5.4	953	5.0	3,828	5.3
Machinery, prime movers, etc.....	526	3.0	539	3.1	580	3.1	539	2.8	2,184	3.0
Elevators, hoists and conveyors.....	405	2.3	390	2.2	435	2.3	414	2.2	1,644	2.3
Vehicles.....	1,056	6.0	972	5.5	1,146	6.2	1,155	6.1	4,329	5.9
Motor vehicles.....	929	5.3	849	4.8	991	5.3	1,013	5.3	3,782	5.2
All other vehicles.....	127	0.7	123	0.7	155	0.9	142	0.8	547	0.7
Dangerous and Harmful Substances and Occupational Activity.....	1,490	8.4	1,620	9.2	1,710	9.2	1,711	9.0	6,531	9.0
Electricity, explosives, heat, etc.....	1,067	6.0	1,073	6.1	1,084	5.8	1,101	5.8	4,325	6.0
Harmful substances.....	423	2.4	547	3.1	626	3.4	610	3.2	2,206	3.0
Accidental injuries.....	181	1.0	162	0.9	191	1.0	180	0.9	714	1.0
Occupational diseases.....	242	1.4	385	2.2	435	2.4	480	2.3	1,492	2.0
Stepping On and Striking Objects.....	866	4.9	942	5.3	972	5.2	981	5.2	3,761	5.2
Falling Objects.....	457	2.6	451	2.6	510	2.8	500	2.6	1,918	2.6
Other and Indefinite.....	1,361	7.7	1,284	7.3	1,364	7.3	1,369	7.2	5,378	7.4
Total — All Causes.....	17,676	100.0	17,599	100.0	18,601	100.0	19,016	100.0	72,892	100.0

Transportation and Public Utilities										
Handling Objects and Tools.....	37.6	5,099	39.9	4,631	38.2	4,845	38.0	19,422	38.4	
Handling objects.....	4,351	33.7	4,659	36.5	4,210	34.7	4,380	34.3	17,600	34.8
Using hand tools.....	496	3.9	440	3.4	421	3.5	465	3.7	1,822	3.6
Falls of Workers.....	19.9	2,297	18.0	2,261	18.6	2,595	20.3	9,726	19.2	
Falls to a different level.....	693	5.4	626	4.9	647	5.3	710	5.6	2,676	5.3
Falls on the same level.....	1,880	14.5	1,671	13.1	1,614	13.3	1,885	14.7	7,050	13.9
Mechanical Apparatus.....	2.5	370	2.9	371	3.1	349	2.7	1,419	2.8	
Machinery, prime movers, etc.....	157	1.2	164	1.3	143	1.2	145	1.1	609	1.2
Elevators, hoists and conveyors.....	172	1.3	206	1.6	228	1.9	204	1.6	810	1.6
Vehicles.....	25.1	3,124	24.5	3,056	25.2	3,273	25.6	12,695	25.1	
Motor vehicles.....	2,730	21.1	2,682	21.0	2,657	21.9	2,868	22.4	10,937	21.6
All other vehicles.....	512	4.0	442	3.5	399	3.3	405	3.2	1,758	3.5

TABLE 18—(Concluded)
PERCENTAGE DISTRIBUTION OF COMPENSATED ACCIDENTS BY CAUSE AND INDUSTRY GROUPS

Causes of injuries	Cases closed in								Total cases 1936-1939	
	1936		1937		1938		1939			
	Number	Percent	Number	Percent	Number	Percent	Number	Percent		
Transportation and Public Utilities—Concluded										
Dangerous and Harmful Substances and Occupational Activity.....	367	2.9	393	3.1	377	3.1	365	2.9	1,502	3.0
Electricity, explosives, heat, etc.	241	1.9	275	2.2	266	2.2	241	1.9	1,023	2.0
Harmful substances.....	126	1.0	118	0.9	111	0.9	124	1.0	479	1.0
Accidental injuries.....	85	0.7	65	0.5	59	0.5	62	0.5	271	0.6
Occupational diseases.....	41	0.3	53	0.4	52	0.4	62	0.5	208	0.4
Stepping On and Striking Objects.....	435	3.4	416	3.2	439	3.6	392	3.1	1,682	3.3
Falling Objects.....	367	2.8	365	2.9	344	2.8	335	2.6	1,412	2.8
Other and Indefinite.....	746	5.8	697	5.5	659	5.4	611	4.8	2,713	5.4
Total — All Causes.....	12,906	100.0	12,762	100.0	12,138	100.0	12,765	100.0	50,571	100.0
Construction Industries										
Handling Objects and Tools.....	4,278	39.1	4,944	39.0	4,816	37.5	4,810	36.9	18,848	38.1
Handling objects.....	3,383	30.9	3,890	30.7	3,728	29.0	3,766	28.9	14,767	29.8
Using hand tools.....	895	8.2	1,054	8.3	1,088	8.5	1,044	8.0	4,081	8.3
Falls of Workers.....	2,882	26.3	3,431	27.0	3,456	26.9	3,635	27.9	13,404	27.1
Falls to a different level.....	1,761	16.1	2,058	16.2	2,154	16.8	2,222	17.1	8,195	16.6
Falls on the same level.....	1,121	10.2	1,373	10.8	1,302	10.1	1,413	10.8	5,209	10.5
Mechanical Apparatus.....	897	8.2	1,042	8.2	1,094	8.5	1,073	8.2	4,106	8.3
Machinery, prime movers, etc.	597	5.5	700	5.5	713	5.6	677	5.2	2,687	5.4
Elevators, hoists and conveyors.....	300	2.7	342	2.7	381	2.9	396	3.0	1,419	2.9
Vehicles.....	459	4.2	483	3.8	434	3.9	566	4.3	2,002	4.0
Motor vehicles.....	409	3.7	407	3.2	430	3.4	455	3.5	1,701	3.4
All other vehicles.....	50	0.5	76	0.6	64	0.5	111	0.8	301	0.6
Dangerous and Harmful Substances and Occupational Activity.....	696	6.3	665	6.8	926	7.2	665	6.6	3,344	6.8
Electricity, explosives, heat, etc.	316	2.9	379	3.0	387	3.0	344	2.6	1,426	2.9
Harmful substances.....	374	3.4	484	3.8	530	4.2	521	4.0	1,918	3.9
Accidental injuries.....	266	2.8	333	2.6	336	2.6	303	2.8	1,328	2.5
Occupational diseases.....	118	1.1	151	1.2	203	1.6	218	1.7	690	1.4
Stepping On and Striking Objects.....	552	5.1	687	5.4	681	5.3	719	5.5	2,639	5.3
Falling Objects.....	823	7.5	894	7.1	1,028	8.0	1,068	8.2	3,815	7.7
Other and Indefinite.....	358	3.3	339	2.7	348	2.7	309	2.4	1,354	2.7
Total — All Causes.....	10,939	100.0	12,685	100.0	12,843	100.0	13,045	100.0	49,512	100.0
Trade										
Handling Objects and Tools.....	4,252	46.7	4,341	46.5	4,302	46.4	4,195	47.2	17,090	46.7
Handling objects.....	3,286	36.1	3,391	36.3	3,392	36.6	3,305	37.2	13,374	36.5
Using hand tools.....	966	10.6	950	10.2	910	9.8	890	10.0	3,716	10.2
Falls of Workers.....	1,987	21.8	2,031	21.7	2,012	21.7	1,933	21.7	7,963	21.7
Falls to a different level.....	843	9.3	867	9.3	876	9.4	804	9.0	3,390	9.2
Falls on the same level.....	1,144	12.5	1,164	12.4	1,136	12.3	1,129	12.7	4,573	12.5
Mechanical Apparatus.....	540	7.0	550	7.3	658	7.1	601	6.8	2,579	7.0
Machinery, prime movers, etc.	455	5.0	471	5.1	436	4.7	433	4.9	1,795	4.9
Elevators, hoists and conveyors.....	185	2.0	209	2.2	222	2.4	168	1.9	784	2.1
Vehicles.....	595	6.6	554	5.9	572	6.2	568	6.4	2,289	6.3
Motor vehicles.....	552	6.2	522	5.6	537	5.8	531	6.0	2,142	5.9
All other vehicles.....	43	0.4	32	0.3	35	0.4	37	0.4	147	0.4
Dangerous and Harmful Substances and Occupational Activity.....	313	3.4	346	3.7	354	3.8	305	3.4	1,318	3.6
Electricity, explosives, heat, etc.	195	2.1	194	2.1	204	2.2	180	2.0	773	2.1
Harmful substances.....	118	1.3	152	1.6	150	1.6	125	1.4	545	1.5
Accidental injuries.....	64	0.7	55	0.6	63	0.7	53	0.6	235	0.6
Occupational diseases.....	54	0.6	97	1.0	87	0.9	72	0.8	310	0.9
Stepping On and Striking Objects.....	543	6.0	510	6.9	601	6.5	547	6.2	2,331	6.4
Falling Objects.....	340	3.7	340	3.6	353	3.8	331	3.7	1,364	3.7
Other and Indefinite.....	434	4.8	412	4.4	418	4.5	414	4.6	1,678	4.6
Total — All Causes.....	9,104	100.0	9,344	100.0	9,270	100.0	8,894	100.0	36,612	100.0

Compensated Accidents in Transportation and Public Utilities

The transportation and public utilities industry group includes all transportation of persons or materials by railroads, motor vehicles, horse-drawn vehicles, vessels or airplanes. This subdivision had about 90 per cent of the compensated accidents. The second subdivision consists of public utilities which had about 10 per cent of the accidents. This industry group was third in number of non-fatal injuries and in number of deaths, and fourth in total compensation cost.

In 1935-1939 compensated accidents in transportation and public utilities averaged 12,442 with compensation amounting to \$4,835,412, an average of \$389 per case. There were 195 death and permanent total cases and, although this was relatively high, the average cost for all cases in this industry was only \$37 above the average for all industries.

Vehicle accidents caused the most serious injuries in this industry. They constituted about one-fourth of all accidents in this industry and were responsible for a relatively high number of death and permanent total disabilities.

A break-down of vehicle accidents shows that 2,634 of the 3,015 power vehicle accidents, that occurred yearly during the five years, were in the operation of automobiles and motor trucks. The lowest number compensated was in 1938, a total of 2,657, and the highest in 1939 when 2,868 were closed. None of these years has been far above or below the average of 2,634 for 1935-1939.

Employed persons who are the victims of violence are not numerous. However it is a kind of hazard that one does not usually think of as incidental to one's employment. Workers in restaurants, hotels and institutions are some of those who most often have to suffer from acts of violence. Cab-drivers also appear to be among those exposed to attacks of this sort.

Compensated Accidents in Trade

The trade industry group is made up of wholesale and retail stores of all kinds, automobile sales and service, lumber, coal and other sales yards, storage and warehouses, and all other mercantile establishments. The compensated accidents in this industry group were less numerous and less costly than in any other main industry group. They also varied less in number from year to year. In 1935-1939, they averaged 9,118 a year which was only a little below the 1932-1935 average of 9,582 a year. Their compensation cost was \$2,390,357 a year and the average was \$262 a case. The lowest number of compensated accidents in trade was recorded in 1939 when 8,894 cases were closed.

The handling of heavy and bulky objects was the most common source of accidents in trade activities. About three-fourths of the yearly average of handling accidents in 1935-1939 resulted from moving heavy and bulky objects by porters, truckmen, etc., engaged in various mercantile activities. In addition to the 2,422 of such accidents there were 703 persons injured yearly by sharp and rough objects.

Falls were second in number with a total that averaged less than half of the leading cause group. Falls on the same level were much more common than those to a different level but the latter were the most costly.

Compensated Accidents in Other Industries

The industry group entitled "Other Industries" includes mining, quarrying, stone crushing, sand and gravel digging, agriculture and a small number of cases with insufficient information to classify them definitely in one of the main groups. The average yearly number of compensated accidents during 1935-1939 was 1,390 for this entire group. About two-thirds of these occurred in agriculture and one-third in quarrying and mining. Their total compensation cost amounted to \$552,267 a year or \$397 a case. The average number of death and permanent total cases, 28, was relatively large and contributed heavily to the high cost per case of these accidents.

As was the case in the larger industry groups, handling objects and tools caused the greatest number of injuries. A relatively large proportion including about one-fourth of the group resulted from accidents in using hand tools. Falls were second in number of injuries caused and were nearly equally divided between those to a different level and those on the same level. Vehicles, chiefly automobiles and motor trucks, ranked third as a cause of compensated injuries while mechanical apparatus ranked fourth.

In Table 18 the percentage distribution of compensated accidents by cause is given for each main industry group. The ratios in this table indicate that during the four years tabulated there has been but little change in the relative number of accidents due to any single cause.

In the Manufacturing industries the Handling Objects cause group showed a slight upward trend during the four years but it is not so pronounced as to be significant. Falls to a different level showed the least change in this group. In the Service industries the stability of the various causes was even more pronounced. In the Transportation and Public Utilities group, accidents due to Handling Objects were most numerous in 1937 while Dangerous and Harmful Substances varied the least. The Handling Objects accidents in Construction work again showed more variation than any other cause within this industry. The number of these cases in 1936 being 1.0 per cent above the four-year ratio and 1.2 below in 1939. The accidents in Trade varied least of all in relative number. No cause group increased or decreased as much as one per cent during the four years and three groups had as little as 0.1 per cent change. A similar tabulation for Other Industries is not included because of the miscellaneous nature of the industries involved.

Table 19 shows separately the number and cost of the occupational diseases included in Tables 20 to 27 which follow.

TABLE 19
OCCUPATIONAL DISEASES DUE TO HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Kind of substance or disease	Total number of cases	Total number of weeks †	Total amount of compensation †	Kind of disability		
				Death and permanent total *	Permanent partial	Temporary
Cases closed in 1936						
All occupational diseases.....	984	22,130	\$285,282	(2) 9	35	940
Occupational poisoning and skin diseases (paragraphs 1 to 24).....	208	13,722	194,823	(2) 7	7	194
Anthrax (par. 1).....	4	26	318	.....	1	3
Lead poisoning (par. 2).....	69	6,390	78,239	.....	3	63
Mercury poisoning (par. 4).....	3	77	980	.....	.....	3
Arsenic poisoning (par. 6).....	4	1,685	32,237	(1) 1	.....	2
Poisoning by wood alcohol (par. 7).....	3	26	514	.....	.....	3
Poisoning by benzol, etc. (par. 8).....	55	1,925	24,454	.....	1	54
Poisoning by carbon bisulphide (par. 9).....	1	14	222	.....	.....	1
Poisoning by nitrous fumes (par. 10).....	1	4	44	.....	.....	1
Poisoning by nickel carbonyl (par. 11).....	2	8	140	.....	.....	2
Dope poisoning (par. 12).....	11	84	1,425	.....	.....	11
Poisoning by formaldehyde (par. 13).....	3	6	73	.....	.....	3
Chronic ulceration (par. 14).....	11	94	1,468	.....	.....	11
Ulceration from tar, pitch, etc. (par. 15).....	4	30	423	.....	.....	4
Compressed air illness (par. 17).....	5	1,034	22,173	.....	2	8
Carbon monoxide poisoning (par. 22).....	11	1,055	9,130	1	.....	10
Poisoning by sulphuric, hydrochloric and hydrofluoric acid (par. 23).....	12	164	2,102	.....	.....	12
Disorders due to contact with petroleum products and their fumes (par. 24).....	9	1,100	20,881	(1) 1	.....	8
Conditions due to harmful occupational activity (paragraphs 25, 26).....	258	1,720	24,580	.....	28	230
Blisters or abrasions (par. 25).....	190	1,321	19,326	.....	25	165
Bursitis or synovitis (par. 26).....	68	399	5,254	.....	3	65
Dermatitis (venenata) (paragraph 27).....	481	5,514	62,577	1	.....	480
Any and all occupational diseases (paragraph 28).....	37	1,174	3,302	1	.....	36
Cases closed in 1937						
All occupational diseases.....	1,414	37,876	\$349,498	(2) 18	66	1,330
Occupational poisoning and skin diseases (paragraphs 1 to 24).....	187	20,350	170,531	(1) 14	9	164
Anthrax (par. 1).....	9	1,438	6,888	1	3	5
Lead poisoning (par. 2).....	59	11,237	109,366	(1) 8	2	49
Mercury poisoning (par. 4).....	7	103	1,189	.....	.....	7
Poisoning by wood alcohol (par. 7).....	6	1,031	2,099	1	.....	5
Poisoning by benzol, etc. (par. 8).....	54	4,987	36,446	3	2	49
Poisoning by carbon bisulphide (par. 9).....	3	25	477	.....	.....	3
Poisoning by nitrous fumes (par. 10).....	1	1	32	.....	.....	1
Poisoning by nickel carbonyl (par. 11).....	3	5	81	.....	.....	3
Dope poisoning (par. 12).....	7	30	411	.....	.....	7
Poisoning by formaldehyde (par. 13).....	7	25	269	.....	.....	7
Chronic ulceration (par. 14).....	12	55	659	.....	.....	12
Ulceration from tar, pitch, etc. (par. 15).....	3	120	1,475	.....	1	2
Carbon monoxide poisoning (par. 22).....	8	228	4,844	.....	1	7
Poisoning by sulphuric, hydrochloric and hydrofluoric acid (par. 23).....	5	57	519	.....	.....	5
Disorders due to contact with petroleum products and their fumes (par. 24).....	3	1,008	5,776	1	.....	2
Conditions due to harmful occupational activity (paragraphs 25, 26).....	417	2,899	37,334	.....	42	375
Blisters or abrasions (par. 25).....	285	1,737	23,177	.....	35	250
Bursitis or synovitis (par. 26).....	132	1,162	14,157	.....	7	125
Dermatitis (venenata) (paragraph 27).....	660	8,915	108,504	.....	8	652
Any and all occupational diseases (paragraph 28).....	150	5,712	33,129	(1) 4	7	139
Silicosis and dust diseases.....	13	3,381	9,503	(1) 3	.....	10
All other.....	137	2,331*	23,626	1	7	129

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 19—(Concluded)
OCCUPATIONAL DISEASES DUE TO HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Kind of substance or disease	Total number of	Total number of weeks †	Total amount of compensation †	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
Cases closed in 1938						
All occupational diseases.....	1,441	65,582	\$493,949	(26) 42	45	1,354
Occupational poisoning and skin diseases (paragraphs 1 to 24).....	204	19,597	221,694	(2) 12	7	183
Anthrax (par. 1).....	3	10	137			3
Lead poisoning (par. 2).....	58	8,814	105,188	(1) 6	1	48
Zinc poisoning (par. 3).....	1	1	7			1
Mercury poisoning (par. 4).....	4	618	5,234			4
Arsenic poisoning (par. 6).....	1	(a)	3			1
Poisoning by wood alcohol (par. 7).....	1	2	26			1
Poisoning by benzol, etc. (par. 8).....	70	4,325	46,890		2	80
Poisoning by carbon bisulphide (par. 9).....	5	50	942			5
Poisoning by nitrous fumes (par. 10).....	1	1	12			1
Poisoning by nickel carbonyl (par. 11).....	2	4	35			2
Dope poisoning (par. 12).....	1	2,028	17,168		2	4
Poisoning by formaldehyde (par. 13).....	2	41	299			2
Chromic ulceration (par. 14).....	10	1,252	7,352			9
Ulceration from tar, pitch, etc. (par. 15).....	5	1,026	2,034		1	4
Compressed air illness (par. 17).....	13	1,035	31,651	(1) 1		12
Methyl chloride poisoning (par. 21).....	2	9	176			2
Carbon monoxide poisoning (par. 22).....	10	85	1,073			10
Poisoning by sulphuric, hydrochloric and hydrofluoric acid (par. 23).....	5	258	2,687			5
Disorders due to contact with petroleum products and their fumes (par. 24).....	5	38	780			5
Conditions due to harmful occupational activity (paragraphs 25, 26).....	341	2,228	33,647		28	313
Blisters or abrasions (par. 25).....	234	1,407	22,450		21	213
Bursitis or synovitis (par. 26).....	107	821	11,197		7	100
Dermatitis (venenata) (paragraph 27).....	761	10,375	122,554		3	898
Any and all occupational diseases (paragraph 28).....	195	33,382	116,054	(24) 30	7	158
Silicosis and dust diseases.....	45	29,886	55,674	(23) 29		16
All other.....	150	3,496	60,380	(1) 1	7	142
Cases closed in 1939						
All occupational diseases.....	1,522	63,689	\$515,825	(10) 34	64	1,424
Occupational poisoning and skin diseases (paragraphs 1 to 24).....	248	21,328	200,092		11	225
Anthrax (par. 1).....	6	1,045	6,912		1	3
Lead poisoning (par. 2).....	84	9,792	94,747		5	78
Zinc poisoning (par. 3).....	2	1,457	12,282		1	
Mercury poisoning (par. 4).....	2	701	5,604			2
Arsenic poisoning (par. 6).....	2	1,000	7,004		1	1
Poisoning by benzol, etc. (par. 8).....	76	5,388	54,191		3	71
Poisoning by carbon bisulphide (par. 9).....	2	2	29			2
Dope poisoning (par. 12).....	14	303	3,353			14
Poisoning by formaldehyde (par. 13).....	5	10	120			5
Chromic ulceration (par. 14).....	4	14	296			4
Ulceration from tar, pitch, etc. (par. 15).....	2	1,009	5,751		1	1
Compressed air illness (par. 17).....	24	324	5,508		4	20
Carbon monoxide poisoning (par. 22).....	11	145	2,639			11
Poisoning by sulphuric, hydrochloric and hydrofluoric acid (par. 23).....	3	6	84			3
Disorders due to contact with petroleum products and their fumes (par. 24).....	11	134	1,567			11
Conditions due to harmful occupational activity (paragraphs 25, 26).....	352	1,765	27,292		31	321
Blisters or abrasions (par. 25).....	225	1,028	15,702		24	201
Bursitis or synovitis (par. 26).....	127	737	11,590		7	120
Dermatitis (venenata) (paragraph 27).....	686	10,695	132,805		7	679
Any and all occupational diseases (paragraph 28).....	236	29,901	155,636	(10) 23	15	193
Silicosis and dust diseases.....	38	20,555	67,938	(10) 19		19
All other.....	198	9,346	87,698	4	15	179

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than half a week.

TABLE 20
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS						
Prime Movers.	78	2,322	\$33,530	48	30	
Steam engines	8	133	2,575	6		
Gasoline engines	52	1,577	20,952	31	21	
Electric motors and dynamos	19	609	9,952	11	8	
Prime movers, other and indefinite	1	3	51		1	
Power Transmission Apparatus.	231	12,475	167,908	3	162	119
Shafts	23	756	9,198		8	15
Set screws, keys and bolts	2	12	116		1	1
Belts and pulleys	157	8,428	110,040	3	87	67
Shifting	38	429	5,922		14	24
Caught by belt	34	3,146	44,482	1	23	10
Caught between belt and pulley	26	3,145	28,045	2	16	8
Belt hooks and fasteners	11	208	3,751		5	6
Struck by breaking belt	15	246	5,888		5	10
Other and indefinite	33	1,254	24,062		24	
Chains and sprockets	27	1,375	18,530		22	5
Ropes, cables and drums	20	541	9,424		12	8
Cogs, cams, gears and friction wheels	56	1,134	17,226		37	19
Clutches	2	214	3,182		1	1
Ratchets	4	15	192		1	3
POWER WORKING MACHINES						
Stone, Clay and Glass Products Machines.	40	2,249	25,738	1	21	18
Brick and tile making machines	2	10	91		1	1
Cement making machines	7	1,335	12,285	1	4	2
Glass making machines	17	243	2,864		8	11
Polishing wheels	1	1	9			1
Surface grinding and cutting machines	8	121	1,680		4	4
Rolls	1	3	20			1
Bottle making machines	1	6	134			1
Other and indefinite	8	112	1,041		2	4
Emery and carbide making machines	4	365	6,689		4	
Stone and ore crushers and grinders	3	94	1,085		2	1
Stone working machines	7	202	2,724		4	3
Metal Working Machines.	2,245	64,179	863,578	(3)	12	1,236
Abrasive wheels	246	8,580	104,015	4		125
Bending and straightening machines	50	1,658	33,454			21
Pipe cutting and threading machines	21	622	9,046			9
Boring machines	10	154	2,410			5
Drills	78	2,895	44,195	(1)	2	44
Milling and gear cutting machines	61	1,379	22,953			35
Broaching machines	1	8	128			1
Die sinkers	1	2	24			1
Gear cutting machines	6	164	1,732			3
Keyseaters	2	62	1,304			1
Milling machines	45	1,085	18,748			50
Profilers	1	16	215			1
Slotters	1	23	491			1
Other and indefinite	4	29	311			1
Hammers and forging machines	45	1,611	24,927			27
Drop hammers	26	986	13,503			14
Forging hammers	10	506	9,292			7
Scrap breakers	2	60	541			2
Upsetting machines	1	8	88			1
Other and indefinite	6	111	1,603			3
Lathes and automatic screw machines	135	2,364	42,904			72
Lathes	120	2,043	38,285			63
Screw machines	15	321	4,651			5
Cleaning mills, tumblers, etc.	8	223	2,744			2
Molding machines	20	628	7,991			12

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Metal Working Machines—Concluded						
Planers and shapers.....	17	927	\$16,873	.....	12	5
Polishers and buffers.....	144	3,068	38,068	1	50	63
Portable power tools.....	242	3,930	80,728	.....	102	140
Power presses.....	618	19,714	252,572	(1) 1	422	195
Arbor presses.....	4	37	545	.....	3	1
Forging presses.....	2	12	171	.....	1	1
Draw presses.....	4	632	7,819	.....	4	.....
Forming presses.....	9	250	3,460	.....	3	1
Flanging presses.....	4	11	143	.....	1	3
Embossing presses.....	1	184	1,071	.....	1	.....
Punch, stamping and trimming presses.....	390	10,790	140,248	(1) 1	221	108
Punch and cycling machines.....	16	68	722	.....	3	11
Punches and riveting machines.....	12	253	2,251	.....	4	8
Other and indefinite.....	236	7,627	96,743	.....	176	60
Hand and foot presses.....	193	2,016	23,734	.....	59	134
Rolling and blooming mills.....	22	1,215	10,316	1	15	6
Metal saws.....	61	2,309	29,118	1	31	29
Band saws.....	5	75	1,063	.....	3	2
Circular saws.....	36	616	11,463	.....	16	20
Hack saws.....	1	1,007	8,575	1	.....	2
Other and indefinite.....	17	611	8,027	.....	12	5
Metal shears and cutting machines.....	119	5,184	52,982	1	62	50
Welding and heat cutting machines.....	20	239	3,585	.....	9	11
Wire working machines.....	39	412	4,658	.....	17	22
Cable making machines.....	1	0	141	.....	1	.....
Wire and tube drawing machines.....	15	801	11,469	.....	12	3
Hydraulic, pneumatic and screw presses.....	2	125	2,268	.....	1	1
Heat treating machines.....	1	1	25	.....	.....	1
Automatic can making machines.....	3	36	805	.....	2	1
Metal working machines, other and indefinite	74	4,079	61,597	(1) 1	44	29
Wood Working Machines.....	903	31,792	391,724	6	573	324
Boring machines and drills.....	24	272	3,599	.....	11	13
Cork working machines.....	3	28	372	.....	1	2
Lathes.....	1	278	6,099	.....	8	1
Mortising machines.....	5	52	858	.....	2	.....
Nailing machines.....	8	77	905	.....	5	1
Tenoning, planing and molding machines.....	157	5,475	67,208	1	103	53
Edgers.....	4	885	6,080	.....	2	2
Jointers.....	81	1,944	30,911	.....	58	23
Matchers, rabbetting.....	1	76	1,245	.....	2	1
Molders.....	9	212	3,614	.....	5	4
Planers.....	68	2,525	24,668	1	33	19
Stickers.....	4	54	636	.....	1	3
Tenoning and gaining machines.....	2	78	1,161	.....	2	.....
Other and indefinite.....	1	1	3	.....	.....	1
Presses (wood working).....	11	154	2,390	.....	7	1
Sanding machines.....	25	367	4,104	.....	10	15
Band, scroll and jig saws.....	31	1,881	18,072	1	20	10
Circular, universal and table saws.....	502	18,921	238,308	3	334	111
Circular and table saws.....	264	9,418	125,879	1	188	81
Circular saws—lumber mill.....	2	21	178	.....	1	1
Gang, circular and edger saws.....	3	1,025	4,870	1	1	1
Lath borer.....	1	61	683	.....	1	.....
Swing saws.....	1	17	256	.....	1	2
Dado saws.....	5	88	1,023	.....	3	2
Rabbetting saws.....	1	12	169	.....	1	.....
Other and indefinite.....	223	8,290	105,360	1	144	78

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Wood Working Machines—Concluded						
Shapers.....	83	3,473	\$39,711	1	10	33
<i>Shapers</i>	41	1,515	19,917	.....	27	14
<i>Variety machines and friezers</i>	21	1,667	15,939	1	12	8
<i>Other and indefinite</i>	21	291	3,855	.....	10	11
Veneering machines.....	11	273	4,318	.....	7	4
Brush and broom making machines.....	20	187	2,305	.....	8	12
Wood working machines, other and indefinite.....	14	354	3,475	.....	8	6
Leather Working Machines—Tanneries	47	1,567	23,389	.....	17	30
Buffing drums.....	2	218	1,743	.....	1	1
Fur working machines.....	8	48	973	.....	1	5
Fleshing, skinning and shaving machines.....	12	292	3,752	.....	2	9
Rolling, felting and glazing jacks.....	8	62	1,238	.....	5	3
Setting up and setting out machines.....	3	233	2,659	.....	2	1
Splitting machines.....	3	128	2,296	.....	1	2
Unhairing machines.....	2	312	6,243	.....	2	.....
Other and indefinite.....	11	274	4,485	.....	2	9
Leather Products Machines	254	3,338	42,801	.....	55	195
Cutting, skiving and slitting machines.....	61	1,016	14,524	.....	28	33
Punching and pressing machines.....	84	1,007	11,605	.....	24	60
Sewing machines.....	44	369	3,593	.....	4	40
Buffing machines.....	8	23	294	.....	1	5
Other shoe making machines.....	79	662	9,043	.....	21	58
Other and indefinite.....	10	261	3,742	.....	7	3
Paper Making Machines	115	4,713	54,495	2	56	57
Barkers, chippers, splitters and grinders.....	10	36	466	.....	3	7
<i>Barkers and rossers</i>	2	5	45	.....	.....	2
<i>Chippers</i>	5	25	353	.....	3	.....
<i>Grinders</i>	3	2	20	.....	.....	3
<i>Splitters</i>	2	4	48	.....	.....	2
Wet machines and presses.....	1	3	70	.....	.....	1
Beaters, including rag washers.....	7	305	5,362	.....	3	4
Screens.....	1	46	699	.....	1	.....
Paper machines.....	41	2,766	27,101	2	16	23
<i>Couch rolls</i>	1	125	1,796	.....	1	.....
<i>Dryers</i>	8	1,169	5,643	1	1	6
<i>Calenders</i>	19	1,302	17,063	1	8	10
<i>Doctors</i>	1	3	47	.....	1	.....
<i>Other and indefinite</i>	12	167	2,552	.....	5	7
Rolls and winders.....	33	964	11,967	.....	17	16
Cutters and slitters.....	12	429	6,187	.....	9	3
Paper coating machines.....	6	85	1,364	.....	4	2
Paper making machines, other and indefinite.....	4	79	1,279	.....	3	1
Paper Products Machines	280	7,535	99,683	1	148	131
Paper cup machines.....	14	263	2,581	.....	6	8
Automatic box making machines.....	38	491	5,336	.....	17	21
Covering machines.....	6	12	140	.....	1	5
Cutting and punching machines.....	94	2,665	45,622	.....	50	44
<i>Die cutters</i>	14	282	4,198	.....	3	5
<i>Guillotines</i>	6	198	2,549	.....	4	2
<i>Hand paper cutters</i>	2	11	205	.....	1	1
<i>Perforators</i>	2	45	772	.....	1	1
<i>Punches</i>	4	111	1,430	.....	3	1
<i>Saws</i>	6	91	1,418	.....	5	3
<i>Shears</i>	1	23	280	.....	1	.....
<i>Other and indefinite</i>	59	1,904	34,820	.....	29	30

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Paper Products Machines—Concluded						
Paper balers.....	34	680	\$7,087	.....	22	12
Doming and ending machines.....	3	22	224	.....	1	1
Doming machines.....	1	6	62	.....	1	.....
Ending machines.....	1	9	106	.....	1	.....
Other and indefinite.....	1	7	56	.....	.....	1
Corner staying machines.....	12	178	2,300	.....	.....	7
Bag and envelope making machines.....	16	590	6,396	.....	13	3
Creasing and folding machines.....	12	550	6,449	.....	7	5
Embossing presses.....	12	314	5,247	.....	7	5
Paper products machines, other and indefinite.....	39	1,770	17,801	1	18	20
Printing and Bookbinding Machines.....	348	6,916	126,598	.....	169	179
Composing machines.....	39	453	10,200	.....	13	26
Linotypes.....	50	251	5,491	.....	10	20
Monotypes.....	1	5	60	.....	1	.....
Type casters.....	2	185	3,885	.....	2	.....
Other and indefinite.....	6	32	764	.....	1	5
Printing presses.....	220	5,610	102,087	.....	122	93
Web newspaper presses.....	37	1,022	19,911	.....	22	15
Flat bed, cylinder or book presses.....	8	310	7,208	.....	6	2
Job platen presses.....	4	293	3,628	.....	2	2
Automatic presses.....	36	1,453	28,612	.....	19	17
Other and indefinite.....	135	2,552	42,728	.....	73	62
Binding presses.....	1	7	96	.....	.....	1
Sewing and stitching machines.....	48	300	3,652	.....	10	32
Wire stitchers.....	16	105	1,186	.....	6	10
Wire staplers.....	3	13	134	.....	1	2
Other and indefinite.....	29	182	2,382	.....	9	20
Other printing machines.....	20	150	2,724	.....	9	11
Other bookbinding machines.....	20	396	7,839	.....	9	11
Textile Machines.....	1,238	13,811	176,341	1	329	908
Washers.....	8	362	3,939	.....	.....	.....
Opening and cleaning machines.....	15	413	6,874	.....	7	8
Carding and combing machines.....	35	1,027	13,386	.....	21	14
Cards.....	21	647	7,306	.....	14	7
Combs.....	2	8	96	.....	1	1
Garnetts.....	10	370	5,968	.....	6	4
Other and indefinite.....	2	2	16	.....	.....	2
Spinning machines.....	27	338	4,135	.....	9	18
Jacks and mules.....	9	26	418	.....	2	7
Spinning frames.....	4	16	183	.....	.....	4
Drawing frames.....	2	13	199	.....	1	1
Other and indefinite.....	12	283	3,335	.....	6	6
Weaving machines.....	47	1,775	15,518	.....	21	26
Looms.....	32	1,385	11,899	.....	12	20
Warpers.....	4	67	669	.....	2	2
Other and indefinite.....	11	323	2,950	.....	7	4
Dyeing, finishing and printing machines.....	27	482	7,289	.....	16	11
Shearing machines.....	2	64	872	.....	2	.....
Braiding, knitting and lace making machines.....	45	417	6,398	.....	14	31
Rope making machines.....	9	177	2,020	.....	7	3
Sewing machines.....	583	3,849	53,423	.....	110	473
Cloth cutting and stamping machines.....	357	2,032	36,486	.....	81	276

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Textile Machines—Concluded						
Hat making machines.....	16	205	\$2,590	.....	3	13
Coating and inlaying machines.....	5	76	1,068	.....	3	3
Winders, doublers and quillers.....	29	593	5,660	.....	13	16
Textile machines, other and indefinite.....	35	2,001	16,683	I	17	17
Laundry Machines.....	323	8,761	109,289	.....	140	183
Centrifugal extractors.....	8	70	682	.....	3	5
Carpet cleaners and tumblers.....	8	280	8,050	.....	2	6
Ironing machines.....	231	6,388	78,104	.....	104	127
Body ironers.....	127	1,559	21,560	.....	52	75
Mangles.....	100	4,795	56,125	.....	50	50
Other and indefinite.....	4	34	419	.....	3	2
Washing machines.....	37	908	11,907	.....	19	18
Wringers and other or indefinite.....	39	1,115	12,546	.....	12	27
Food Products Machines.....	795	20,590	298,961	(1) 3	337	455
Cleaning, preparing and sorting machines.....	12	1,104	19,504	(1) 1	7	4
Milling and grinding machines.....	19	313	3,620	.....	9	10
Mixing machines and kettles.....	46	4,918	72,790	.....	29	15
Dough mixers.....	36	4,672	69,158	2	22	13
Other mixing machines and kettles.....	10	246	3,632	.....	7	2
Cookers and ovens.....	1	857	14,350	.....	1	.....
Shaping and forming machines.....	67	2,656	40,799	.....	35	32
Cutting and chopping machines.....	427	6,318	88,378	.....	146	281
Candy making machines.....	30	595	6,513	.....	13	17
Ice crushers and cutting machines.....	38	1,184	17,800	.....	23	15
Packing machines, all kinds.....	56	932	10,473	.....	27	29
Bottling machines.....	44	561	8,151	.....	27	17
Tobacco working machines.....	1	9	98	.....	.....	4
Centrifugal extractors and separators.....	1	1	4	.....	.....	1
Dishwashing and cleaning machines.....	18	389	8,066	.....	6	12
Food products machines, other and indefinite.....	32	773	10,417	.....	14	18
Farm Machines.....	42	968	13,491	.....	17	25
Feed and ensilage cutting machines.....	5	514	8,521	.....	5	.....
Harvesters and mowers.....	16	154	1,918	.....	4	12
Threshers.....	2	14	108	.....	1	1
Hay presses and balers.....	2	142	1,571	.....	1	1
Plows, harrows and other farm machines.....	17	144	1,373	.....	6	11
Construction Machines.....	404	20,324	235,043	(1) 8	165	231
Concrete mixers.....	91	9,242	111,717	4	37	50
Rock drills.....	36	357	5,273	.....	18	18
Pile drivers.....	17	1,402	15,882	.....	11	6
Road rollers and graders.....	48	3,773	34,745	(1) 3	13	32
Well drills.....	9	263	3,564	.....	5	4
Trench and ditch digging.....	8	125	1,556	.....	3	5
Power shovels and dredging machines.....	85	3,199	34,275	1	31	53
Construction machines, other and indefinite.....	110	1,963	28,031	.....	47	63
Chemical Products Machines.....	46	525	7,331	.....	27	19
Grinding machines.....	6	37	610	.....	2	2
Agitating mixers, vats and kettles.....	4	15	209	.....	2	2
Machines of recovery, such as screens, etc.....	2	19	261	.....	2	.....
Furnaces, dryers, ovens and evaporators.....	1	35	479	.....	1	.....
Crushers.....	5	34	455	.....	2	2
Calenders.....	1	1	20	.....	.....	1
Soap stamping presses, power.....	2	8	201	.....	1	1
Soap stamping presses, hand or foot.....	2	46	553	.....	2	.....

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability					
				Death and permanent total*	Permanent partial	Temporary			
MACHINERY, ETC.—Concluded									
Chemical Products Machines—Concluded									
Packing machines, all kinds.....	11	91	\$1,010	.....	8	5		
Tablet presses and pill making machines.....	3	148	2,087	.....	2	1		
Other and indefinite.....	11	100	1,446	.....	7	4		
Paints, Varnishes, Inks and Dyes Machines.									
Agitating mixers and kettles.....	3	7	111	.....	16	7		
Paint and pony mixers.....	5	223	3,242	.....	5	.....		
Grinding machines.....	4	196	3,051	.....	4	.....		
Other and indefinite.....	11	176	2,390	.....	7	4		
Rubber, Celluloid and Composition Goods Machines.									
Tire making machines.....	150	3,630	45,571	.....	73	77		
Hose making machines.....	2	27	426	.....	1	1		
Mixers.....	1	7	113	.....	1	.....		
Cutting and slitting machines and saws.....	3	296	4,686	.....	2	1		
Hand and foot presses.....	24	447	5,528	.....	11	13		
Covering machines, insulated wire.....	22	113	1,073	.....	5	17		
Punching and pressing machines.....	1	7	78	.....	1	.....		
Cutting and punching machines, guillotine.....	38	1,148	13,534	.....	21	17		
Comb cutting machines.....	6	159	1,587	.....	2	4		
Drills and lathes.....	3	53	728	.....	2	1		
Grinding, washing and milling machines.....	22	564	5,473	.....	11	11		
Vulcanizing machines.....	1	29	338	.....	1	.....		
Other and indefinite.....	21	483	6,797	.....	11	10		
Mining and Ore Refining Machines.									
Miscellaneous Machines.									
Office machines.....	36	333	5,089	.....	14	22		
Spraying machines.....	29	205	2,767	.....	9	20		
All other.....	6	92	1,570	.....	4	2		
1	36	752	.....	1	.....	.....	
Other Than Power Working Machines.									
Pumps.....	250	7,707	107,895	1	148	131			
Fans and blowers.....	56	2,634	28,456	.....	37	18		
Turntables.....	84	2,147	33,407	.....	45	89		
Compressors.....	1	9	184	.....	1	.....		
Automatic stokers.....	50	1,135	19,889	.....	23	27		
Machines, not otherwise classified.....	4	64	1,145	.....	4	.....		
Hand and foot power devices, n.o.c.†.....	72	1,451	19,718	.....	32	40		
Ice harvesting machines.....	11	140	2,837	.....	5	6		
.....	2	127	2,259	.....	1	1		
Total—Machinery, Prime Movers and Power Transmission Apparatus.	7,971	214,372	\$2,837,582	(5)	38	3,789			
						4,144			

HOISTING AND CONVEYING APPARATUS

Elevators, except Construction and Sidewalk.	194	67,353	\$516,704	46	199	249
Cable breaking.....	11	288	5,343	.....	2	9
Cable unwinding.....	1	9	77	.....	.....	3
Caught by cable.....	23	740	10,809	.....	15	7
Struck by counterweight.....	1	2,055	10,831	2	1	5
Caught in or struck by machinery.....	22	986	17,092	.....	10	3

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

† Not otherwise classified.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE
Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Elevators, except Construction and Sidewalk—						
Concluded						
Caught between floor and car.....	48	6,186	\$31,718	5	15	28
Caught between cars or shaft side and car.....	31	4,001	21,868	2	9	19
Caught between gate and car.....	2	9	83	.....	2	.....
Caught between car and overhead equipment.....	3	2,007	27,034	1	1	1
Struck by car in pit.....	4	71	1,470	.....	4	.....
Struck by car elsewhere.....	4	1,010	3,094	1	.....	3
Sudden start or stop of car.....	6	1,051	10,576	.....	3	3
Fall of worker into shaft from floor.....	107	35,519	243,355	27	36	44
Fall of worker into shaft from car.....	10	5,258	37,289	5	3	2
Fall of worker into or from car.....	13	182	2,149	.....	4	9
Objects falling down shaft from floor.....	4	44	525	.....	1	3
Objects falling into car.....	2	9	88	.....	2	.....
Objects falling down shaft from car.....	1	30	600	.....	1	.....
Catching of load between car and shaft.....	1	2	21	.....	1	.....
Gates and doors.....	154	3,133	42,811	.....	77	77
Fall of car, indefinite.....	17	4,289	43,413	2	5	10
Elevators, other and indefinite.....	20	474	6,480	.....	7	13
Dumb-Waiters.....	126	3,006	26,484	1	44	51
Cable breaking.....	29	630	6,366	.....	13	16
Caught by cable.....	5	29	363	.....	2	3
Struck by counterweight.....	7	266	4,545	.....	3	4
Caught in or struck by machinery.....	1	7	182	.....	1	.....
Caught between floor and car.....	2	25	451	.....	1	1
Caught between cars or shaft side and car.....	2	1	20	.....	.....	.....
Struck by car.....	4	61	695	.....	2	2
Fall of worker into shaft from floor.....	2	45	375	.....	1	1
Fall of worker into shaft from car.....	1	3	29	.....	.....	1
Fall of worker into or from car.....	2	7	134	.....	1	1
Objects falling down shaft from floor.....	33	1,415	8,684	1	9	23
Objects falling down shaft from car.....	19	173	1,444	.....	7	12
Gates and doors.....	5	19	206	.....	2	3
Fall of car indefinite.....	9	284	2,621	.....	2	7
Dumb-waiters, other and indefinite.....	5	41	369	.....	5	.....
Sidewalk Elevators.....	38	619	8,071	.....	21	17
Cable breaking.....	3	86	1,332	.....	1	2
Caught by cable.....	1	11	147	.....	1	.....
Caught in or struck by machinery.....	8	113	1,518	.....	5	3
Caught between floor and car.....	2	9	120	.....	1	1
Caught between cars or shaft side and car.....	1	7	73	.....	.....	.....
Fall of worker into shaft from floor.....	1	30	275	.....	.....	1
Fall of worker into shaft from car.....	1	19	250	.....	1	.....
Objects falling down shaft from car.....	1	(a)	2	.....	.....	1
Gates and doors.....	12	121	1,876	.....	6	6
Fall of car, indefinite.....	6	197	2,266	.....	.....	3
Sidewalk elevators, other and indefinite.....	2	26	214	.....	2	.....
Construction Hoists and Elevators.....	13	5,289	50,197	1	3	7
Caught between floor and car.....	2	376	6,016	.....	1	1
Struck by car.....	2	1,165	4,479	1	1	.....
Sudden start or stop of car.....	1	18	316	.....	.....	1
Fall of worker into shaft from floor.....	2	498	9,199	.....	.....	2
Fall of worker into shaft from car.....	1	1,000	9,005	1	.....	1
Objects falling down shaft from floor.....	1	226	1,998	.....	.....	1
Fall of car, indefinite.....	3	2,001	19,138	1	1	1
Construction hoists, other and indefinite.....	1	5	46	.....	.....	1
Mine Cages, Skips and Buckets.....	1	8	192	.....	.....	1
Locomotive Cranes.....	5	196	3,250	.....	3	2
Fall of car.....	1	3	36	.....	.....	1
Caught in machinery.....	1	5	83	.....	.....	1
Load falling, breaking of cable or chain.....	1	39	541	.....	1	.....
Objects falling from load or bucket.....	1	15	168	.....	1	.....
Falls from cranes or crane track, not in erecting or rigging.....	1	134	2,422	.....	1	.....

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Gantry and Traveling Cranes	119	25,917	\$280,330	12	113	94
Caught or struck by car	15	5,388	50,973	4	6	5
Fall of car	1	833	7,117	—	1	—
Caught or struck by cable or chain	19	1,569	16,803	1	13	5
Caught in machinery	15	2,661	38,546	1	10	4
Caught or struck by hook or sling	64	2,167	21,026	1	35	28
Caught or struck by swinging load	24	6,639	80,182	2	12	10
Struck by load, lowering or raising	20	374	4,590	—	14	6
Load falling, breaking of cable or chain	3	36	573	—	1	2
Load falling, slipping of cable	2	5	61	—	—	2
Load falling, slipping of hook	8	279	3,874	—	3	5
Load falling, slipping of hitch	6	166	3,058	—	3	3
Load falling, failure of current on magnet	2	1,051	9,091	—	2	—
Objects falling from load or bucket	17	2,125	15,882	2	5	—
Falls from cranes or crane track, not in erecting or rigging	11	2,406	25,300	1	3	7
Other and indefinite	12	238	3,254	—	5	7
Derrick and Jib Cranes	217	18,814	292,888	(4)	8	104
Struck by derrick or crane	7	2,197	10,220	2	3	2
Fall of derrick or crane	5	2,008	16,613	1	2	2
Caught or struck by cable or chain	12	327	4,333	—	5	7
Caught in machinery	14	513	6,200	—	11	3
Caught or struck by hook or sling	53	969	14,150	—	29	24
Boom swinging	7	121	1,575	—	1	6
Boom or mast breaking	2	23	454	—	1	1
Struck by swinging load	37	1,276	22,982	—	17	20
Struck by load lowering or raising	24	4,301	111,698	(2)	2	10
Load falling, slipping of cable or hook	6	1,020	1,710	1	1	4
Load falling, breaking of cable or hook	2	21	283	—	1	1
Load falling, breaking of sling	1	8	150	—	1	—
Load falling, slipping of hitch	3	974	8,425	—	2	—
Load falling, other and indefinite	9	2,121	34,852	(1)	1	5
Objects falling from load	22	1,721	32,633	(1)	1	9
Falls from crane load	1	1,000	23,078	—	1	—
Falls from derrick, crane cab or track, not in erecting or rigging	4	42	693	—	1	3
Other and indefinite	8	172	2,839	—	6	2
Blocks and Tackles, Winches, Hand Hoists, Etc.	160	8,143	93,199	3	74	83
Objects falling from	26	1,620	26,448	—	12	14
Caught in or struck by	75	2,618	40,726	—	40	35
Struck by load	8	40	556	—	3	5
Rope or cable breaking or slipping	28	1,581	10,412	1	13	14
Other and indefinite	23	2,304	15,057	2	6	15
Hay Forks, Derricks and Stackers	6	1,064	2,192	1	2	1
Unloading Machines	18	828	12,483	—	7	11
Air Hoists	8	203	2,720	—	6	2
Objects falling from	3	69	821	—	2	1
Caught in or struck by	2	18	237	—	1	1
Rope or cable breaking or slipping	1	96	1,387	—	1	—
Other and indefinite	2	20	275	—	2	—
Overhead Trolleys	25	1,440	10,243	1	13	11
Objects falling from	12	221	2,339	—	6	6
Caught in or struck by	8	1,031	5,912	1	1	4
Other and indefinite	7	188	1,992	—	6	4

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Concluded						
Belt and Chain Conveyors.....	46	1,803	\$28,704	.....	24	22
Objects falling from.....	10	84	1,266	.....	4	6
Caught in or struck by.....	35	1,699	27,279	.....	20	15
Other and indefinite.....	1	20	159	.....	.....	1
Screen Conveyors.....	1	1,000	6,064	1	.....	.....
Bucket Conveyors.....	68	3,084	39,536	1	36	31
Objects falling from.....	4	29	414	.....	.....	4
Caught in or struck by.....	50	2,933	37,251	1	33	25
Rope or cable breaking or slipping.....	1	81	1,184	.....	1	.....
Other and indefinite.....	4	41	687	.....	2	2
Platform Conveyors and Escalators.....	9	443	7,008	.....	3	6
Charging Machines.....	5	1,056	8,614	.....	4	1
Hoists and Skips for Blast Furnaces, Etc.....	3	9	86	.....	1	2
Worm or Screw Conveyors.....	3	32	461	.....	2	1
Hoists or Conveyors, Other and Indefinite.....	96	4,549	42,040	2	51	43
Objects falling from.....	11	105	1,637	.....	4	7
Caught in or struck by.....	60	2,270	20,654	1	34	25
Struck by load.....	4	84	958	.....	3	1
Rope or cable breaking or slipping.....	6	1,098	5,289	1	2	3
Other and indefinite.....	15	992	13,502	.....	8	7
Total—Hoisting and Conveying Apparatus	1,561	144,856	\$1,431,466	(4) 79	710	772
VEHICLES						
Steam and Electric Railways.....	436	46,861	\$429,201	(2) 36	91	309
Train wrecks.....	25	4,264	40,559	4	3	18
Collisions.....	15	3,136	26,829	3	2	10
Derailments.....	9	128	1,998	.....	1	8
Other and indefinite.....	1	1,000	12,732	1	.....	.....
Falls from trains.....	174	11,380	135,038	(2) 7	23	144
Getting on or off, in motion.....	7	1,918	4,939	1	1	5
Getting on or off, at rest.....	70	479	8,648	.....	3	67
Riding, sudden start or stop.....	1	184	2,454	.....	1	.....
Riding, slipping or loss of balance.....	4	221	4,682	.....	1	3
Falls from, loading and indefinite.....	92	9,278	114,465	(2) 6	17	69
Falls on board.....	50	931	16,334	.....	8	42
Sudden start or stop.....	15	123	2,397	.....	3	10
Slipping or loss of balance.....	20	690	12,442	.....	3	17
Other and indefinite.....	17	118	1,495	.....	2	15
Striking against objects while on board.....	8	953	12,863	.....	1	7
Fixed structures.....	7	952	12,865	.....	1	6
Other objects.....	1	1	8	.....	.....	1
Caught between cars.....	14	3,197	39,471	1	0	7
While coupling or uncoupling.....	7	1,094	10,160	.....	4	3
Other and indefinite.....	7	2,103	29,321	1	2	4
Struck by train.....	48	23,480	156,308	23	8	17
While switching.....	2	31	553	.....	.....	2
While repairing track.....	1	1	85	.....	.....	1
While crossing track.....	8	3,164	30,209	.....	4	1
Working or walking on or near track.....	21	10,260	68,704	10	4	7
Other and indefinite.....	16	10,032	68,807	10	.....	6

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES—Continued						
Steam and Electric Railways—Concluded						
Other causes.....	117	2,656	\$28,628	1	42	74
Handling brakes.....	6	80	1,932	.....	2	4
Objects falling from cars, not in loading.....	6	73	1,175	.....	1	5
Objects shifting on load.....	1	3	53	.....	1	1
Air brakes, including air hose.....	1	30	478	.....	1	1
All other causes.....	103	2,461	24,998	1	38	64
Mine and Quarry Cars and Motors	30	1,414	14,663	1	8	21
Collisions.....	1	1	12	.....	1	1
Derailments.....	3	20	269	.....	1	2
Falls from cars.....	1	123	1,538	.....	1	.....
Struck by cars, while coupling or switching.....	3	38	498	.....	2	1
Struck by cars, other and indefinite.....	15	1,139	11,150	1	2	12
Lifting or pushing car.....	1	17	151	.....	1	4
Caught by car or load, in dumping or loading.....	2	39	562	.....	1	1
Mine and quarry cars, other and indefinite.....	1	37	483	.....	1	.....
Plant Trucks, Cars and Motors on Tracks	47	2,737	20,694	2	15	30
Derailments.....	1	20	242	.....	1	3
Falls from cars.....	1	1,022	6,378	1	.....	7
Struck by cars, while coupling or switching.....	2	62	593	.....	2	.....
Struck by cars, other and indefinite.....	16	1,110	7,685	1	2	13
Lifting or pushing car.....	1	390	4,350	.....	4	5
Caught by car or load, in dumping or loading.....	1	22	174	.....	1	.....
Objects falling from car.....	4	67	855	.....	3	1
Plant trucks, etc., other and indefinite.....	3	44	417	.....	2	1
Contractors Cars and Engines	1	139	2,687	1	1	3
Automobile and Other Power Vehicles	4,903	317,148	2,890,155	(4) 196	1,512	3,195
Automobiles and motor trucks.....	4,657	305,121	2,757,128	(4) 191	1,425	3,041
Collisions, skidding.....	127	9,533	98,254	8	43	78
Collisions, breaking of parts.....	21	850	14,254	.....	10	11
Collisions with cars and engines.....	53	13,815	62,739	13	11	29
Collisions with other vehicles and objects.....	852	96,678	778,405	(1) 71	255	586
Overturning, skidding or ditching.....	96	12,818	98,385	10	34	52
Overturning, breaking of parts.....	21	399	7,424	.....	7	14
Overturning, all other.....	72	8,586	83,971	5	26	41
Struck by or caught between.....	731	77,696	638,401	(1) 54	213	464
Cranking.....	514	10,778	170,916	.....	220	204
Engines.....	35	442	7,957	.....	16	19
Breaking of car or part.....	9	1,130	16,801	(1) 1	3	8
Falls from.....	1,081	45,176	455,479	(1) 19	239	823
Objects falling from.....	122	2,443	38,081	.....	42	80
Objects shifting on load.....	34	239	3,436	.....	7	27
Mechanical unloading.....	44	4,033	26,419	3	24	17
Wrecking cars.....	8	1,072	1,761	1	4	1
Other and indefinite.....	837	19,555	254,445	8	272	557
Power, plant and platform trucks.....	70	1,882	14,688	1	19	50
Tractors.....	143	7,207	76,011	3	55	85
Railroad hand cars.....	1	15	201	.....	.....	2
Motorcycles.....	31	2,923	42,127	1	13	17
Bicycles	79	823	8,192	.....	14	65
Airplanes	13	8,037	75,189	1	1	4

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES—Concluded						
Animal Drawn Vehicles, except Mine Cars	257	16,178	\$187,491	(4)	8	67
Collisions with other vehicles	2	54	1,129	.....	1	1
Collisions with other objects	1	37	506	.....	.....	1
Overturning	30	3,046	38,476	1	8	21
Whiffletrees	3	87	1,495	.....	3	.....
Falls from vehicles	125	8,337	90,416	(2)	4	37
Struck by or caught between vehicles	13	339	4,098	.....	.....	13
Objects falling from vehicles	6	43	575	.....	2	4
Objects shifting on load	7	233	4,233	.....	2	5
Breaking of vehicle or part	10	1,165	9,841	1	1	8
Sudden start or stop	51	1,731	23,169	(1)	1	11
Animal drawn vehicles, other and indefinite	8	1,106	13,553	(1)	1	2
Animal Drawn Implements, Not Machinery	7	110	1,189	.....	1	6
Water Craft	14	6,439	32,346	6	2	6
Collisions with vessels	1	1,000	1,000	1	.....	.....
Capsizing	3	2,002	17,712	2	.....	1
Hawsers and other ropes	1	353	5,404	.....	1	.....
Falls from boats or jumping overboard	5	2,056	6,521	2	1	2
Falls into hatchway	1	14	136	.....	1	.....
Water craft, other and indefinite	3	1,014	1,573	1	.....	2
All Other Vehicles	9	212	3,976	.....	1	5
Total—Vehicles	5,800	400,207	\$3,665,783	(10)	257	1,717
						3,826

EXPLOSIONS, ELECTRICITY, HEAT, ETC.

Boilers and Steam Pressure Apparatus	74	5,183	\$54,020	3	12	59
Steam boilers	41	4,843	48,316	3	8	30
Explosion of steam boilers	21	4,740	46,897	3	7	11
Escaping steam and hot water	17	91	1,261	.....	1	16
Other	3	12	158	.....	.....	3
Steam pipes	13	92	1,420	.....	2	11
Steam and hot water gauges	3	9	87	.....	.....	3
Other and indefinite	17	239	4,197	.....	2	15
Explosive Substances	288	38,495	370,096	(4)	28	62
Blasting	26	11,822	141,365	(3)	7	12
Premature shot	6	4,110	32,953	1	3	2
Misfire or delayed shot	6	3,493	50,156	(2)	3	2
Other and indefinite	14	4,219	58,256	(1)	3	7
Dust, explosion	2	5	58	.....	.....	2
Gas, explosion	67	2,717	36,095	(1)	2	9
Gasoline and other petroleum products	107	10,902	80,626	9	16	82
Explosions of gasoline in automobiles	60	2,767	30,080	2	10	38
Other explosions of gasoline	57	8,135	50,596	7	6	44
Other and indefinite explosions	86	13,049	111,952	10	25	51
High Pressure Apparatus	72	2,522	30,549	1	41	28
Bursting of ammonia apparatus	1	40	752	.....	.....	1
Bursting of other high pressure apparatus	41	1,796	17,832	1	21	19
Bursting, other and indefinite	30	686	11,965	.....	22	8

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
EXPLOSIONS, ETC.—Concluded						
Electricity.....	287	28,026	\$246,102	21	43	218
Trolley wire.....	3	1,014	7,351	1	1	1
Third rail.....	11	1,270	14,554	1	2	8
Transmission wire.....	44	11,124	115,765	8	15	21
Switchboard apparatus.....	3	3	46	.....	.....	3
Switches, controllers and fuses.....	37	2,233	6,749	2	4	31
Motors and generators.....	2	16	171	.....	.....	2
Transformers.....	7	2,075	8,922	2	1	4
Electrical fixtures.....	1	(a)	4	.....	.....	1
Electrical appliances.....	18	50	827	.....	.....	18
Short circuits.....	114	1,892	16,865	1	13	100
Other.....	47	8,349	74,848	6	12	29
Conflagrations.....	29	8,774	56,152	8	5	16
Fires in buildings.....	25	8,753	55,869	8	4	13
Other fires.....	4	21	283	.....	1	3
Hot Substances and Flames.....	2,061	38,593	367,819	21	221	1,819
Water.....	486	5,179	47,111	3	16	467
Asphalt, tar, pitch, etc.....	140	912	12,443	.....	20	114
Other hot liquids.....	455	2,546	32,726	.....	32	423
Molten metal.....	185	3,730	39,386	1	40	144
Explosions of molten metal.....	4	17	239	.....	1	3
At furnace or cupola.....	15	198	2,137	.....	3	12
Pouring, carrying, etc.....	96	1,382	17,683	.....	16	80
Slag and all other.....	70	2,233	19,387	1	20	49
Radiant heat from incandescent metal.....	1	4	32	.....	.....	1
Metal, not molten.....	9	1,022	3,790	1	1	7
Contact with hot surfaces.....	95	1,863	25,623	1	9	85
Oxyacetylene and electric cutting and welding.....	47	1,548	36,077	.....	9	38
Flames, clothing.....	32	5,769	37,504	.....	8	10
Flames, other.....	322	9,360	79,999	.....	49	267
Hot glass.....	4	4	49	.....	.....	4
Ignition of gasoline, oil, etc.....	123	3,617	27,156	2	17	104
Hot objects, other and indefinite.....	162	3,039	25,923	2	14	146
Total—Explosions, Electricity, Heat, Etc.	2,811	121,593	\$1,124,738	(4)	82	391
						2,338

HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Poisonous Substances.....	278	15,677	\$117,094	12	6	250
Carbon monoxide.....	41	2,302	15,022	2	.....	39
Dyes and chemical preparation of same.....	2	4	51	.....	.....	2
Poison ivy and other plants.....	117	217	2,498	.....	1	116
Illuminating gas.....	15	1,098	12,584	1	.....	14
Hydrocyanic acid and cyanide gases and fumes.....	4	2,008	5,289	2	.....	2
Carbon bisulphide.....	1	1	5	.....	.....	1
Septic infection.....	3	88	1,062	.....	1	2
Poisonous substances, other and indefinite.....	95	9,959	80,583	7	4	84
Corrosive Substances.....	597	8,963	114,736	2	109	486
Lime.....	175	2,281	34,955	.....	24	151
Cement.....	49	255	3,928	.....	3	48
Acids.....	130	2,750	34,533	1	33	60
Alkalies.....	101	1,496	22,700	.....	27	74
Other chemicals.....	142	2,172	18,620	1	22	119
Irritant but not Corrosive Substances.....	23	193	2,378	.....	1	22

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE
Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HARMFUL SUBSTANCES, ETC.—Concluded						
Occupational Diseases From §.	984	22,130	\$285,282	(2) 9	35	940
Anthrax.	4	26	318	.....	1	3
Lead poisoning.	69	6,390	78,239	..... 3	3	63
Mercury.	3	77	980	.....	.....	3
Arsenic.	4	1,685	32,237	(1) 1	1	2
Wood alcohol.	3	26	514	.....	.....	3
Nitro and amido derivatives of benzol.	55	1,925	24,454	..... 1	.....	54
Carbon bisulphide.	1	14	222	.....	.....	1
Nitrous fumes.	1	4	44	.....	.....	1
Nickel carbonyl.	2	8	140	.....	.....	2
Dope (lacquers).	11	84	1,425	.....	.....	11
Formaldehyde.	3	6	73	.....	.....	3
Chromic acid (chrome ulcer).	11	94	1,468	.....	.....	11
Handling tar, pitch, etc.	4	30	423	.....	.....	4
Compressed air.	5	1,034	22,173	.....	2	3
Carbon monoxide.	11	1,055	9,130	..... 1	.....	10
Sulphuric, hydrochloric and hydrofluoric acid	12	164	2,102	.....	.....	12
Fumes from petroleum products (respiratory and gastro-intestinal disorders).	9	1,100	20,881	(1) 1	.....	8
Continuous friction, rubbing, etc. (blisters or abrasions).	190	1,321	19,326	.....	25	165
Continuous vibration, pressure, etc. (bursitis or synovitis).	68	399	5,254	.....	3	65
Direct contact with harmful alkalies, acids, etc. (dermatitis).	481	5,514	62,577	..... 1	.....	480
All other causes.	37	1,174	3,302	..... 1	.....	36
Total—Harmful Substances and Occupational Activity.	1,882	46,963	\$519,490	(2) 23	151	1,708

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS

Falls on Stairs and Steps.	2,722	78,228	\$832,152	(4) 25	518	2,179
Due to handling objects.	350	9,370	91,012	..... 3	55	292
Slipping on wet steps.	81	1,252	14,762	.....	14	57
Slipping on icy steps.	80	1,220	18,826	.....	14	66
Slipping or loss of balance (n.o.c.) ‡.	1,374	37,100	424,873	(2) 10	252	1,112
Stumbling, misstepping, heel catching, etc.	458	10,061	116,951	(2) 2	97	359
Falling over loose objects on stairs.	43	765	7,905	.....	10	33
Knocked down stairs.	4	1,007	21,243	.....	1	3
Defective or broken stairs.	60	2,445	20,608	..... 1	6	59
Falls on, due to hand tools slipping.	2	90	741	.....	1	1
Other and indefinite.	264	14,918	115,231	..... 9	68	187
Falls from Ladders.	1,639	80,129	1,073,040	(3) 13	561	1,065
Breaking of ladders or parts.	134	7,014	105,170	(1) 1	39	94
Slipping, twisting or fall of ladder.	808	30,199	436,976	(1) 2	226	380
Knocked off ladder.	20	1,167	15,362	.....	7	13
Falls from ladders while handling objects.	75	2,725	44,745	.....	30	45
Slipping of foot or loss of balance.	508	23,560	287,110	(1) 5	167	336
Falling in getting on or off.	54	1,784	16,544	..... 1	11	42
Slipping or breaking of tool.	16	477	9,151	.....	7	9
Other and indefinite.	224	13,203	157,982	..... 4	74	146
Falls from Scaffolds.	681	82,772	989,845	(5) 35	230	416
Breaking or slipping of scaffold.	247	31,487	399,038	(3) 12	96	139
Breaking of tackle or support.	20	5,164	58,748	..... 3	7	10
Tilting of scaffold.	9	178	2,320	.....	2	7
Tilting or falling of loose plank.	24	578	7,974	.....	6	18

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ See also "Poisonous Substances" and "Corrosive Substances."

§ Not otherwise classified.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLS OF WORKERS, ETC.—Concluded						
Falls from Scaffolds—Concluded						
Defective or broken surfaces.....	16	203	\$3,814	.....	1	15
Falls from scaffolds while handling objects.....	25	1,110	14,148	.....	10	15
Slipping or loss of balance.....	153	18,615	223,651	(1) 7	57	89
Falling over loose objects on scaffold.....	6	368	4,743	.....	3	3
Knocked off scaffold.....	10	614	9,886	.....	5	5
Falling in getting on or off.....	55	2,126	26,772	..... 1	10	54
Slipping or breaking of tool.....	12	2,634	50,925	.....	7	5
Other and indefinite.....	94	19,695	187,826	(1) 12	26	56
Falls from Other Elevations.....	1,866	144,169	1,575,489	(7) 71	463	1,327
Benches, boxes, chairs and tables.....	590	14,913	202,528	(1) 2	122	466
Structures, not in erection or demolition.....	21	6,463	48,462	(1) 5	7	9
Cranes, derricks, elevators and hoists in erection and rigging.....	3	26	516	.....	1	2
Elevated bins, pockets and tanks.....	15	2,524	37,663	..... 1	4	10
Structures in erection or demolition.....	145	26,505	290,069	..... 15	39	91
Temporary floors.....	1	8	39	.....	.....	1
Boilers, engines and machines.....	110	3,221	40,322	..... 1	25	84
Piles of material.....	105	7,311	66,669	(1) 3	32	70
Poles, trees and towers.....	81	10,054	106,511	..... 5	31	45
Roofs.....	83	16,092	172,214	(2) 11	30	42
Runways, balconies and platforms.....	399	16,018	222,759	..... 4	98	290
Loading platforms.....	53	3,598	49,035	(1) 2	9	42
Gangplanks.....	14	635	9,025	.....	2	12
Tramways and trestles (including railroad).....	2	1,001	8,709	..... 1	.....	1
Window and wall openings.....	65	20,566	149,114	(1) 15	23	27
All other elevations.....	179	14,639	165,854	..... 6	47	126
Into Excavations, Pits and Openings.....	418	31,280	305,087	(1) 16	87	335
Bins, vats, etc., with hot or corrosive substances.....	39	5,269	28,542	..... 5	2	32
Bins, pits and vats, other.....	110	7,002	66,171	..... 4	23	83
Floor openings, except elevator shafts.....	147	9,150	115,478	..... 1	35	111
Manholes (street, sidewalk, etc.).....	12	1,071	4,869	..... 1	1	10
Quarry, from bench or face.....	1	168	1,390	.....	1	1
Excavations, ditches and other openings.....	129	8,620	88,637	(1) 5	26	98
Falls on Level Surfaces.....	9,707	223,256	2,765,178	(10) 56	1,852	7,799
Slipping of foot.....	3,884	94,283	1,179,070	(2) 26	839	3,019
Falls due to defective surfaces.....	154	1,746	25,353	.....	20	134
Slipping or breaking of tools or work.....	288	10,237	128,041	(1) 2	55	231
Stumbling over fixed objects.....	95	5,649	78,197	(1) 2	24	69
Falls when handling bulky objects.....	2,569	49,036	576,280	(2) 1	328	2,232
Stumbling over loose objects.....	1,100	25,009	325,925	(2) 6	226	868
Falls with injuries due to objects in hands.....	692	12,796	149,381	..... 3	180	509
Injury or fall due to foot catching.....	133	6,044	78,865	(1) 2	27	104
Other and indefinite.....	792	18,456	224,066	(1) 6	153	633
Other and Indefinite Falls of Workers.....	99	2,491	24,838	..... 1	14	84
Total—Falls of Workers.....	17,152	642,325	\$7,565,629	(30) 217	3,730	13,205
STEPPING ON AND STRIKING OBJECTS						
Stepping on Objects.....	567	4,399	\$55,751	..... 1	24	542
Nails.....	476	4,009	51,549	..... 1	18	457
Sharp objects, other or indefinite.....	91	390	4,202	.....	6	85
Striking Objects.....	3,076	52,202	633,867	(3) 20	624	2,432
Nails.....	171	3,901	61,831	(1) 2	26	143
Sharp projections from walls, etc.....	306	3,571	41,731	..... 1	67	238
Fixed objects.....	1,497	24,174	288,919	(1) 9	321	1,167
Fellow worker.....	66	1,002	15,593	.....	16	50
Loose objects, other or indefinite.....	1,036	19,554	225,793	(1) 8	194	834
Total—Stepping On and Striking Objects	3,643	56,601	\$689,618	(3) 21	648	2,974

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLING OBJECTS, NOT IN HANDLING						
Collapses	156	12,724	\$167,499	(1) 5	29	72
Buildings and walls	27	6,952	84,576	3	11	13
Piles	61	2,186	28,891	.....	14	47
Scaffolds and stagings	9	1,451	20,623	(1) 1	1	7
Chutes, conveyors, slides and screens	1	(a)	3	.....	.....	1
Other and indefinite	8	2,135	33,406	1	3	4
Objects Falling from Elevations	1,195	45,625	\$90,589	(5) 18	366	811
Structures not in erection or demolition	16	272	5,001	.....	7	9
Bins and pockets	1	72	1,010	.....	1	.....
Trestles and tramways	1	15	272	.....	1	.....
Runways, balconies and platforms	8	169	2,571	.....	4	4
Racks and shelves	64	727	9,194	.....	18	46
Floor openings except elevator shafts	12	2,172	30,568	(1) 2	1	9
Chutes, conveyors, slides and screens	43	497	5,091	.....	13	30
Machines and work benches	295	4,405	56,324	1	95	199
Piles	142	3,941	50,276	1	42	99
Structures in erection or demolition	63	3,562	40,611	1	19	43
Scaffolds and stagings	42	3,401	48,552	(1) 2	9	31
Other and indefinite	508	26,392	341,119	(3) 11	156	341
Trees Falling	63	4,027	15,473	3	18	42
Fall of trees in felling	38	2,641	9,868	2	12	24
Trees lodged in felling	4	1,008	1,648	1	1	2
Kick-backs of trees in felling	5	67	1,107	.....	2	3
Limbs, not in felling trees	14	305	2,800	.....	3	11
Trees, not in felling	2	6	50	.....	.....	2
Objects Tipping Over	342	7,826	\$4,705	3	92	247
Objects Falling into Excavations	75	6,070	\$11,913	3	25	47
Ditches and trenches	51	3,357	30,772	1	21	29
Other and indefinite	24	2,713	31,141	2	4	18
Cave-ins	139	18,585	\$17,747	(2) 10	30	99
Ditches and trenches	88	13,095	144,797	(1) 6	20	62
Tunnels	1	118	2,178	.....	1	.....
Sand banks and all other cave-ins	50	5,372	40,772	(1) 4	9	37
Falling Objects in Mines, Quarries and Tunnels	48	3,956	\$40,210	2	14	32
Coal, rock and ore at working face	22	1,323	15,791	.....	9	13
Coal, rock and ore in chutes, manways, etc.	15	2,099	16,824	2	2	11
Roof in working places	2	386	4,463	.....	1	1
Ore or rock in stopes (metal mines)	1	2	21	.....	.....	1
Timbers	5	95	1,873	.....	1	4
From surface into shaft	1	1	8	.....	.....	1
Other and indefinite	2	50	1,230	.....	1	1
Other Falling and Shifting Objects	106	3,821	\$11,898	2	34	70
Poles	2	4	35	.....	.....	2
Objects falling due to wind, etc.	9	87	1,364	.....	5	4
Other falling and shifting objects	95	3,730	30,499	2	29	64
Falling Objects, Handling Not Determined	972	9,187	\$139,967	.....	375	597
Total — Falling Objects, Not in Handling	3,046	111,821	\$1,320,001	(8) 46	983	2,017

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 20—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HANDLING OBJECTS						
Heavy and Bulky Objects	17,110	287,365	\$3,602,632	(10) 76	3,163	13,871
Objects dropped while handling, carrying, etc.	2,926	42,165	536,493	10	1,139	1,777
Objects handled by fellow worker	405	9,558	93,631	5	129	271
Objects dropped or falling while loading	1,124	19,345	250,845	(3) 7	389	728
Objects dropped or falling while piling	198	3,019	33,223	1	62	135
Caught between object handled and other object	1,468	14,787	227,818	.....	750	718
Strain in handling	9,386	169,580	2,057,542	(6) 48	189	9,149
Objects slipping, breaking and other or indefinite	1,603	28,931	403,080	(1) 5	505	1,093
Sharp and Rough Objects	4,712	56,432	685,569	11	1,035	3,666
Glass	821	10,426	116,989	3	194	624
Nails	341	3,688	55,220	.....	66	275
Wire and metal straps	460	5,523	79,386	1	115	344
Sheet metal and sheet metal objects	515	5,905	61,976	2	115	398
Wood slivers	538	9,004	87,555	3	114	421
Metal slivers	389	5,512	78,673	1	104	284
Castings	10	49	765	.....	3	7
Bones	138	1,240	18,439	.....	30	103
Pins and sharp objects, other and indefinite	1,500	15,085	186,566	1	294	1,205
Hand Trucks, Carts and Wheelbarrows	1,015	16,493	253,753	(3) 4	268	743
Struck by truck in handling	291	4,660	72,969	(1) 2	66	223
Struck by truck handled by fellow worker	86	566	8,211	.....	15	71
Caught between truck and other object	125	1,324	18,061	.....	40	85
Objects falling from truck, not in handling	164	3,557	65,022	(1) 1	44	119
Overturning	87	2,741	33,296	(1) 1	18	11
Running over hands or feet	187	2,599	42,610	.....	66	121
Other and indefinite	75	1,046	13,584	.....	19	56
Continued Wear from Handling and Friction Burns	167	2,059	21,210	1	20	146
Total—Handling Objects	23,004	362,349	\$4,563,164	(13) 92	4,486	18,426
HAND TOOLS						
In Hands of Injured Worker	4,532	69,400	\$1,008,993	(4) 10	1,487	3,035
Glancing and slipping of tool in use	3,782	44,310	646,340	(2) 7	1,183	2,572
Breaking and coming apart of tool	97	1,518	23,071	.....	45	52
Flying pieces set in motion by tool	564	21,312	316,833	(2) 2	232	330
Nails and spikes	39	2,818	44,964	.....	20	19
Metal chips	260	10,516	160,810	(1) 1	107	152
Stone	116	3,895	54,312	.....	47	69
Other and indefinite	149	3,983	56,757	(1) 1	58	90
Tools in hands of injured worker, other and indefinite	109	2,260	22,749	1	27	81
In Hands of Fellow Worker	354	7,238	81,964	2	181	181
Glancing and slipping of tool in use	300	3,739	52,871	.....	155	145
Breaking and coming apart of tool	9	32	520	.....	3	6
Flying pieces set in motion by tool	48	2,398	23,735	1	20	27
Nails and spikes	4	1	31	.....	.....	4
Metal chips	23	1,013	13,823	.....	12	11
Stone	8	82	1,309	.....	2	6
Other and indefinite	13	1,302	8,572	1	6	6
Tools in hands of fellow worker, other and indefinite	7	1,069	4,838	1	3	3
Total—Hand Tools	4,896	76,638	\$1,090,957	(4) 12	1,668	3,216

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 20—(Concluded)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1936

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
ANIMALS						
Draft Animals	250	11,312	\$151,556	(2) 5	68	177
Kicked and stepped on by animals.....	127	5,365	71,643	(1) 3	31	31
Bites.....	2	5	45			2
Runaways.....	41	2,535	42,043	(1) 1	13	27
Other and indefinite.....	80	3,407	37,825	1	24	55
Other Animals	140	4,080	45,158		41	97
Total — Animals.....	390	15,392	\$196,714	(2) 7	109	274
MISCELLANEOUS						
Flying particles and objects, not from machines and hand tools.....	882	22,435	\$311,506	(3) 6	312	564
Doors, windows, covers and gates.....	913	16,106	184,262	(1) 6	323	584
Drenching, not drowning.....	9	1,035	9,823	1	.....	8
Heat prostration and sunstroke.....	45	5,632	24,549	5	1	39
Cold including frostbite.....	260	7,232	55,460	3	79	178
Lightning.....	1	1,000	2,554	1	.....	.....
Violence of fellow worker.....	54	3,366	33,815	2	25	27
Violence, all other.....	552	37,744	317,729	25	232	295
Wrestling, sparring, chasing and horseplay.....	17	80	1,153	.....	4	13
Compressed air, not explosions.....	24	990	13,414	.....	10	14
Miscellaneous accidents, other.....	165	6,018	46,680	1	28	133
Injuries due to position assumed.....	212	1,973	29,103	.....	11	201
Swallowing objects.....	5	1,009	7,721	1	.....	4
Accidental discharge of firearms.....	12	2,351	10,025	2	7	3
Total — Miscellaneous.....	3,151	106,971	\$1,047,794	(4) 56	1,032	2,063
INDEFINITE HISTORY OF ACCIDENT						
Indefinite History of Accident	151	5,295	\$64,371	(1) 4	20	127
GRAND TOTAL — ALL ACCIDENTS	75,458	2,305,383	\$26,117,307	(90) 934	19,434	55,090

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS						
Prime Movers.	82	4,213	\$44,649	3	48	31
Steam engines.	1	1,000	14,169	1	...	...
Gasoline engines.	59	1,859	17,534	1	35	23
Electric motors and dynamos.	22	1,354	12,946	1	13	8
Power Transmission Apparatus.	311	14,148	179,058	5	178	128
Shafts.	33	2,634	32,734	1	14	18
Set screws, keys and bolts.	1	30	750	...	1	...
Belts and pulleys.	170	8,638	97,212	4	64	72
<i>Shifting.</i>	41	1,945	29,508	1	...	18
<i>Caught by belt.</i>	35	1,655	14,069	1	18	16
<i>Caught between belt and pulley.</i>	28	1,068	13,912	...	21	7
<i>Contact with running belt.</i>	4	138	1,496	...	3	1
<i>Belt hooks and fasteners.</i>	7	1,012	4,916	1	1	5
<i>Struck by breaking belt.</i>	12	385	5,379	...	4	8
<i>Other and indefinite.</i>	43	2,435	27,932	1	25	17
Chains and sprockets.	24	467	8,962	...	19	5
Ropes, cables and drums.	14	332	4,406	...	8	6
Cogs, cams, gears and friction wheels.	66	1,822	31,853	...	40	26
Clutches.	2	215	2,990	...	1	1
Ratchets.	1	10	151	...	1	...
POWER WORKING MACHINES						
Stone, Clay and Glass Products Machines.	55	2,845	45,161	1	29	25
Brick and tile making machines.	2	208	2,298	...	1	1
Cement making machines.	9	395	7,502	...	6	3
Glass making machines.	24	618	12,839	...	14	10
<i>Polishing wheels.</i>	1	5	43	...	1	...
<i>Surface grinding and cutting machines.</i>	11	198	8,522	...	6	6
<i>Presses.</i>	1	28	460	...	1	...
<i>Bottle making machines.</i>	6	342	8,367	...	5	1
<i>Other and indefinite.</i>	5	45	447	...	3	2
Pottery making machines.	2	2	25	...	...	...
Emery and carbondum making machines.	2	1,183	13,119	1	1	...
Stone and ore crushers and grinders.	1	336	7,604	...	3	3
Stone working machines.	10	108	1,774	...	4	1
Metal Working Machines.	2,881	75,155	1,090,804	11	1,605	1,265
Abrasive wheels.	292	4,941	85,306	...	147	145
Bending and straightening machines.	66	2,270	36,260	...	38	28
Pipe cutting and threading machines.	24	258	4,305	...	9	15
Boring machines.	5	1,324	9,306	1	4	3
Drills.	99	3,232	42,929	...	42	55
Milling and gear cutting machines.	85	2,031	26,307	1	40	44
<i>Broaching machines.</i>	6	33	471	...	2	1
<i>Gear cutting machines.</i>	13	80	1,677	...	4	9
<i>Milling machines.</i>	57	1,856	28,047	1	80	26
<i>Slotters.</i>	7	58	947	...	3	1
<i>Other and indefinite.</i>	2	10	165	...	1	1
Hammers and forging machines.	61	4,718	57,041	8	32	26
<i>Drop hammers.</i>	31	1,520	24,128	1	15	16
<i>Forging hammers.</i>	17	2,410	20,080	2	8	7
<i>Swaging machines.</i>	2	146	2,480	...	2	...
<i>Upsetting machines.</i>	2	282	3,567	...	1	1
<i>Other and indefinite.</i>	9	860	6,786	...	6	1
Lathes and automatic screw machines.	181	2,954	51,998	...	109	72
<i>Lathes.</i>	148	1,979	36,598	...	84	64
<i>Screw machines.</i>	33	975	15,406	...	25	...

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC. — Continued						
Metal Working Machines — Concluded						
Cleaning mills, tumblers, etc.	9	336	\$6,442		7	2
Molding machines	40	925	17,272		19	21
Planers and shapers	27	536	10,124		18	9
Polishers and buffers	171	3,993	62,749		94	77
Portable power tools	334	6,975	107,599	2	158	174
Power presses	820	25,898	347,574	1	550	269
Arbor presses	7	68	1,270		5	4
Bulldozers	2	126	2,191		1	1
Forging presses	7	420	5,035		6	1
Draw presses	5	268	3,961		5	5
Forming presses	13	605	7,876		11	2
Flanging presses	18	351	4,829		8	10
Embossing presses	3	12	110		1	2
Punch, stamping and trimming presses	397	12,641	177,933		272	125
Punch and eyeletting machines	19	255	2,708		14	5
Punches and riveting machines	16	156	1,672		6	10
Other and indefinite	333	10,996	159,989	1	225	107
Hand and foot presses	155	1,314	15,513		55	100
Rolling and blooming mills	31	2,158	36,960		17	14
Metal saws	79	1,385	25,832		40	39
Band saws	4	14	180		1	3
Circular saws	56	1,036	20,362		28	28
Hack saws	6	73	1,388		3	3
Scroll and jig saws	1	13	132		1	1
Other and indefinite	12	249	3,770		7	5
Metal shears and cutting machines	202	3,987	58,820		118	84
Welding and heat cutting machines	9	1,261	16,676	1	4	4
Wire working machines	55	898	13,594		23	32
Cable making machines	1	4	44		1	1
Wire and tube drawing machines	18	794	13,175		13	5
Hydraulic, pneumatic and screw presses	6	298	3,912		4	2
Automatic can making machines	1	88	2,200		1	1
Metal working machines, other and indefinite	107	2,577	38,866		63	44
Wood Working Machines						
Boring machines and drills	21	513	7,881		10	11
Cork working machines	11	64	793		4	7
Lathes	17	676	9,603		13	4
Mortising machines	4	247	4,410		4	—
Nailing machines	5	210	4,805		2	3
Tenoning, planing and molding machines	170	3,662	51,791		104	60
Edgers	1	61	695		1	—
Jointers	88	1,403	22,410		57	31
Matchers, rabbiting	1	1	10		—	1
Molders	3	26	411		1	2
Planers	68	2,040	26,218		42	25
Stickers	3	18	232		1	2
Dovetail cutters	2	83	1,391		1	1
Rosers	1	2	27		—	1
Other and indefinite	3	28	397		1	—
Presses (woodworking)	9	311	3,615		4	5
Sanding machines	14	329	4,805		6	8
Band, scroll and jig saws	50	1,134	18,044		31	19
Circular, universal and table saws	583	22,626	302,056	5	398	180
Circular and table saws	296	12,884	172,505	4	205	87
Circular saws—(lumber mill)	1	75	866		1	—
Gaining machines	1	10	200		1	—
Gang, circular and edger saws	2	64	542		2	—
Swing saws	8	112	1,585		7	1
Dado saws	12	384	7,053		11	1
Other and indefinite	263	9,097	119,305	1	171	91

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Wood Working Machines—Concluded						
Shapers.....	100	3,263	\$42,211	1	65	34
<i>Shapers</i>	49	1,760	16,656	1	31	17
<i>Variety machines and frizers</i>	15	365	7,504		11	4
<i>Other and indefinite</i>	36	1,138	18,051		28	13
Veneering machines.....	11	150	1,349		4	7
Brush and broom making machines.....	23	240	3,589		9	14
Wood working machines, other and indefinite.....	27	1,492	20,684	(1) 1	15	11
Leather Working Machines—Tanneries.....	66	1,841	31,997		27	39
Buffing drums.....	2	7	152		2	
Other drums and paddle vats.....	1	2	24			1
Fur working machines.....	1	83	1,001		2	7
Fleshing, skiving and shaving machines.....	13	520	7,932		6	7
Rolling, felting and glazing jacks.....	15	173	3,368		5	10
Pressing and baling machines.....	2	13	148		1	
Hair washing and drying machines.....	2	284	7,059		1	1
Setting up and setting out machines.....	3	179	2,542		2	
Splitting machines.....	5	188	4,034		3	2
Unhairing machines.....	2	45	577		2	
Other and indefinite.....	12	347	5,160		5	7
Leather Products Machines.....	276	3,051	39,006		69	207
Cutting, skiving and slitting machines.....	73	671	10,901		26	47
Punching and pressing machines.....	82	905	11,055		23	59
Sewing machines.....	31	163	2,183		4	27
Buffing machines.....	8	45	629		3	5
Other shoe making machines.....	72	985	11,816		11	61
Other and indefinite.....	10	282	2,422		2	8
Paper Making Machines.....	132	4,635	70,871		84	48
Barkers, chippers, splitters and grinders.....	11	252	4,172		6	5
<i>Barkers and rossers</i>	3	20	258		1	2
<i>Chippers</i>	1	9	118			
<i>Grinders</i>	4	174	2,608		3	1
<i>Splitters</i>	3	49	1,188		1	2
Wet machines and presses.....	2	154	2,339		2	
Screens.....	1	98	1,613		1	
Paper machines.....	54	1,777	25,728		34	20
<i>Head box</i>	1	(a)	4			
<i>Couch rolls</i>	4	31	685		3	1
<i>Dryers</i>	5	45	718		3	2
<i>Calenders</i>	15	497	6,385		10	5
<i>Doctors</i>	4	28	423		2	2
<i>Other and indefinite</i>	25	1,176	17,513		16	9
Rolls and winders.....	34	1,279	20,108		20	14
Cutters and slitters.....	13	236	3,863		8	5
Paper coating machines.....	10	429	5,720		6	4
Paper making machines, other and indefinite.....	7	410	7,328		7	
Paper Products Machines.....	339	7,572	96,738	1	166	172
Paper cup machines.....	20	155	2,102		9	11
Tube machines.....	1	1	7			1
Automatic box making machines.....	39	602	9,224		19	20
Covering machines.....	17	138	1,582		10	7
Cutting and punching machines.....	109	2,328	35,819		60	49
<i>Die cutters</i>	18	563	8,708		10	8
<i>Guillotines</i>	3	254	4,607		3	
<i>Hand paper cutters</i>	9	288	8,576		3	6

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Paper Products Machines—Concluded						
Perforators.....	8	43	\$380	.....	3	5
Rotary cutters.....	1	12	100	.....	1	.....
Saws.....	8	48	646	.....	4	4
Shears.....	1	2	21	.....	1	1
Other and indefinite.....	61	1,118	17,809	.....	36	25
Paper balers.....	45	1,806	10,884	1	15	29
Doming and ending machines.....	5	66	742	.....	3	2
Doming machines.....	1	(a)	8	.....	1	.....
Ending machines.....	5	66	734	.....	2	.....
Corner staying machines.....	1	30	480	.....	1	4
Bag and envelope making machines.....	21	277	3,472	.....	8	13
Embossing rolls and calendars.....	5	386	6,234	.....	3	2
Creasing and folding machines.....	10	386	5,672	.....	7	5
Embossing presses.....	23	602	10,421	.....	10	13
Paper products machines, other and indefinite.....	39	795	10,099	.....	21	18
Printing and Bookbinding Machines.....	373	7,445	115,464	1	181	191
Composing machines.....	34	527	9,967	.....	16	18
Linotypes.....	28	273	6,072	.....	13	15
Monotypes.....	1	(a)	6	.....	1	1
Other and indefinite.....	5	264	3,889	.....	5	2
Gathering machines.....	1	15	366	.....	1	.....
Printing presses.....	235	4,690	79,455	.....	116	119
Web newspaper presses.....	30	446	9,339	.....	14	16
Flat bed, cylinder or book presses.....	13	171	3,365	.....	7	6
Job platen presses.....	10	123	1,763	.....	5	4
Automatic presses.....	28	1,344	22,162	.....	17	11
Other and indefinite.....	154	2,606	42,826	.....	72	82
Binding presses.....	1	1	1	.....	.....	1
Sewing and stitching machines.....	59	437	4,854	.....	23	30
Wire stitchers.....	18	147	1,608	.....	7	11
Wire staplers.....	10	113	1,206	.....	3	7
Other and indefinite.....	31	177	2,040	.....	13	18
Other printing machines.....	20	464	9,489	.....	11	9
Other bookbinding machines.....	23	1,311	11,327	1	14	8
Textile Machines.....	1,203	16,165	222,473	(1)	2	363
Washers.....	1	158	3,467	.....	1	.....
Opening and cleaning machines.....	10	994	12,649	.....	12	7
Carding and combing machines.....	56	2,017	21,031	.....	33	23
Cards.....	30	906	9,229	.....	17	13
Combs.....	4	80	1,044	.....	3	1
Garnets.....	15	342	3,956	.....	7	8
Slubbers.....	1	1	1	.....	1	1
Other and indefinite.....	6	688	6,799	.....	6	.....
Spinning machines.....	35	727	10,535	.....	18	17
Jacks and mules.....	8	376	6,544	.....	5	5
Spinning frames.....	5	43	491	.....	3	3
Drawing frames.....	2	39	491	.....	2	2
Other and indefinite.....	20	269	3,009	.....	5	11
Weaving machines.....	47	752	12,418	.....	22	25
Looms.....	36	567	8,940	.....	18	18
Warpers.....	1	61	821	.....	1	.....
Other and indefinite.....	10	124	2,657	.....	3	7

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weekst	Total amount of compensa- tion†	Kind of disability		
				Death and per- manent total*	Per- manent partial	Tem- porary
MACHINERY, ETC.—Continued						
Textile Machines —Concluded						
Dyeing, finishing and printing machines.....	35	1,309	\$21,045	.....	20	15
Shearing machines.....	2	121	1,158	.....	2	.....
Braiding, knitting and lace making machines	49	730	10,397	.....	19	30
Rope making machines.....	12	233	3,519	.....	9	3
Sewing machines.....	567	3,558	42,881	.....	111	456
Cloth cutting and stamping machines.....	286	2,504	41,137	.....	80	206
Hat making machines.....	33	1,281	13,432	1	10	22
Coating and inlaying machines.....	5	1,206	21,335	(1) 1	2	2
Winders, doublers and quillers.....	33	363	4,351	.....	14	19
Textile machines, other and indefinite.....	23	232	3,118	.....	10	13
Laundry Machines	315	6,373	68,698	1	125	189
Centrifugal extractors.....	8	77	1,198	.....	3	5
Carpet cleaners and tumblers.....	10	33	412	.....	2	8
Ironing machines.....	223	4,761	47,889	1	89	133
Body ironers.....	124	1,148	16,571	.....	45	79
Mangles.....	91	3,511	30,126	1	41	49
Other and indefinite.....	8	102	1,192	.....	5	5
Washing machines.....	34	826	12,023	.....	18	16
Wringers and other or indefinite.....	40	676	7,176	.....	13	27
Food Products Machines	850	17,131	237,656	2	412	436
Cleaning, preparing and sorting machines.....	11	461	4,710	.....	4	7
Milling and grinding machines.....	19	216	3,644	.....	11	8
Mixing machines and kettles.....	70	2,801	36,227	1	34	35
Dough mixers.....	52	2,605	33,411	1	25	26
Other mixing machines and kettles.....	18	196	2,816	.....	9	9
Cookers and ovens.....	3	135	2,634	.....	2	1
Shaping and forming machines.....	99	3,185	50,308	.....	53	46
Cutting and chopping machines.....	410	4,398	61,454	.....	171	239
Candy making machines.....	28	777	9,279	.....	16	12
Ice crushers and cutting machines.....	48	2,255	25,902	1	27	20
Packing machines, all kinds.....	56	996	14,301	.....	31	25
Bottling machines.....	43	771	13,941	.....	30	13
Tobacco working machines.....	4	32	403	.....	2	2
Stamping presses.....	1	5	95	.....	1	.....
Centrifugal extractors and separators.....	1	1	30	.....	.....	1
Dishwashing and cleaning machines.....	18	170	2,644	.....	7	11
Roasting and drying machines.....	4	33	788	.....	1	3
Food products machines, other and indefinite	35	895	11,296	.....	22	13
Farm Machines	24	595	6,882	9	15	
Feed and ensilage cutting machines.....	1	2	28	.....	.....	1
Harvesters and mowers.....	11	346	4,551	.....	3	8
Threshers.....	2	1	32	.....	.....	2
Hay presses and balers.....	1	22	208	.....	1	.....
Shelling machines.....	2	49	440	.....	2	.....
Plows, harrows and other farm machines.....	7	172	1,623	.....	3	4
Construction Machines	414	21,313	212,889	(1) 13	202	199
Concrete mixers.....	84	2,470	32,341	1	42	41
Rock drills.....	60	2,657	23,557	2	36	22
Pile drivers.....	20	1,924	18,709	1	10	9
Road rollers and graders.....	61	3,914	32,698	(1) 3	25	33
Well drills.....	14	308	4,621	.....	11	3
Trench and ditch digging machines.....	4	65	602	.....	3	1
Power shovels and dredging machines.....	104	8,190	83,737	5	47	52
Construction machines, other and indefinite	67	1,785	16,624	1	28	38

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Concluded						
Chemical Products Machines	42	1,013	\$15,065	25	14	
Grinding machines	4	45	627	2	2	
Agitating mixers, vats and kettles	4	94	1,612	4	—	
Machines of recovery, such as screens, etc.	1	7	175	1	—	
Crushers	3	181	2,451	2	—	1
Centrifugal extractors	1	172	2,949	1	—	
Soap stamping presses, power	5	186	3,321	4	1	
Soap stamping presses, hand or foot	4	78	661	3	1	
Soap grinders	1	1	6	—	1	
Packing machines, all kinds	9	74	760	5	—	
Tablet presses and pill making machines	4	40	593	2	2	
Other and indefinite	6	135	1,910	4	2	
Paints, Varnishes, Inks and Dyes Machines	16	273	3,693	9	7	
Paint and pony mixers	3	51	967	1	2	
Grinding machines	1	4	45	—	1	
Crushers	1	61	686	1	—	
Other and indefinite	11	157	1,995	7	4	
Rubber, Celluloid and Composition Goods						
Machines	185	4,584	64,392	81	104	
Calenders	11	525	8,807	4	5	
Tire making machines	2	93	1,842	1	1	
Cutting and slitting machines and saws	31	298	3,586	13	18	
Hand and foot presses	34	584	6,916	7	27	
Covering machines, insulated wire	4	21	207	1	3	
Punching and pressing machines	43	1,434	18,042	26	17	
Cutting and punching machines, guillotine	2	2	28	—	2	
Comb cutting machines	3	5	61	—	3	
Drills and lathes	22	295	3,109	8	14	
Grinding, washing and milling machines	4	441	8,778	3	1	
Other and indefinite	31	886	13,016	18	13	
Mining and Ore Refining Machines	2	26	596	1	1	
Miscellaneous Machines	38	1,436	19,632	17	21	
Office machines	29	208	2,725	11	18	
Spraying machines	6	1,051	13,814	8	3	
All other	3	177	3,093	3	—	
Other Than Power Working Machines	301	8,033	123,264	2	179	120
Pumps	79	2,582	36,839	1	56	22
Fans and blowers	94	2,482	32,598	1	52	41
Compressors	56	1,429	25,706	—	33	23
Automatic stokers	8	397	8,476	6	2	
Machines, not otherwise classified	51	972	16,890	—	26	25
Hand and foot power devices, n.o.c.‡	12	110	2,053	5	7	
Ice harvesting machines	1	61	702	1	—	
Total—Machinery, Prime Movers and Power Transmission Apparatus	8,950	232,764	\$3,164,624	(3) 49	4,482	4,419

HOISTING AND CONVEYING APPARATUS

Elevators, except Construction and Sidewalk	511	52,905	\$448,868	(1)	32	203	276
Cable breaking	14	3,251	28,124	3	2	9	
Cable unwinding	2	12	162	—	—	2	
Caught by cable	18	708	13,296	—	12	8	
Struck by counterweight	3	92	1,559	—	1	2	
Caught in or struck by machinery	24	789	13,065	—	10	14	
Caught between floor and car	62	1,129	14,725	—	22	40	

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ Not otherwise classified.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total ^{1*}	Permanent partial	Temporary
HOISTING, ETC. — Continued						
Elevators, Except Construction and Sidewalk						
Concluded						
Caught between cars or shaft side and car...	46	6,120	\$33,879	5	15	26
Caught between gate and car...	1	3	32	...	...	1
Struck by car in pit...	2	140	2,462	...	1	1
Struck by car elsewhere...	7	410	5,236	...	2	5
Sudden start or stop of car...	11	288	4,106	...	3	8
Car dumping...	1	8	67	...	...	1
Car rising too high...	1	31	384	...	1	...
Fall of worker into shaft from floor...	102	27,233	205,367	(1) 19	45	38
Fall of worker into shaft from car...	9	5,200	45,841	3	4	2
Fall of worker into or from car...	18	458	5,191	...	4	14
Objects falling down shaft from floor...	5	383	4,550	...	3	2
Objects falling down shaft from car...	2	63	1,568	...	1	1
Catching of load between car and shaft...	1	8	94	...	...	1
Gates and doors...	139	3,456	34,964	1	64	74
Fall of car, indefinite...	20	2,798	28,739	1	6	13
Elevators, other and indefinite...	23	325	5,457	...	7	16
Dumb-Waiters ...	128	4,311	40,010	1	50	77
Cable breaking...	39	1,742	18,629	...	15	24
Caught by cable...	1	50	488	...	...	1
Struck by counterweight...	3	1,006	6,117	1	...	2
Caught in or struck by machinery...	1	49	213	...	1	...
Caught between floor and car...	4	36	303	...	...	4
Caught between cars or shaft side and car...	1	1	11	...	...	1
Struck by car...	4	44	694	...	3	1
Sudden start or stop...	3	10	146	...	1	2
Fall of worker into shaft from floor...	1	51	429	...	1	...
Objects falling down shaft from floor...	30	501	5,893	...	18	12
Objects falling down shaft from car...	24	687	5,681	...	7	17
Gates and doors...	4	41	644	...	1	7
Fall of car, indefinite...	7	72	620	...	2	5
Dumb-waiters, other and indefinite...	2	16	142	...	1	1
Sidewalk Elevators ...	43	1,943	21,866	...	22	21
Cable breaking...	2	15	194	...	...	2
Caught by cable...	1	7	117	...	1	...
Caught in or struck by machinery...	11	1,184	12,171	...	7	4
Caught between floor and car...	8	72	860	...	4	4
Caught between cars or shaft side and car...	1	19	227	...	1	...
Struck by car...	1	1	12	...	...	1
Fall of worker into shaft from floor...	1	288	4,201	...	2	2
Objects falling down shaft from floor...	1	207	1,705	...	...	1
Catching of load between car and shaft...	1	1	46	...	...	1
Gates and doors...	11	121	2,029	...	5	6
Fall of car, indefinite...	2	26	304	...	2	...
Construction Hoists and Elevators ...	13	4,817	78,285	(1) 3	3	7
Struck by car...	2	349	4,021	...	1	1
Fall of worker into shaft from floor...	4	3,308	52,259	(1) 3	...	1
Fall of worker into shaft from car...	1	61	1,476	...	1	...
Objects falling down shaft from car...	2	72	618	...	...	2
Catching of load between car and shaft...	1	14	180	...	...	1
Fall of car, indefinite...	1	13	183	...	...	2
Construction hoists, other and indefinite...	1	1,000	19,548	...	1	...
Mine Cages, Skips and Buckets ...	4	1,139	8,892	1	1	2
Locomotive Cranes ...	5	309	7,684	...	1	4
Fall of car...	2	11	267	...	...	2
Caught in machinery...	1	291	7,285	...	1	...
Caught or struck by swinging load...	1	7	128	...	...	1
Other and indefinite...	1	(a)	4	...	...	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Gantry and Traveling Cranes.....	297	14,333	\$152,461	7	174	116
Caught or struck by car.....	17	1,770	17,027	1	9	7
Fall of car.....	7	135	2,480	.....	4	3
Caught or struck by cable or chain.....	29	409	6,286	.....	22	7
Caught in machinery.....	15	672	8,842	.....	10	5
Caught or struck by hook or sling.....	77	3,202	35,435	2	49	26
Caught or struck by swinging load.....	40	583	10,531	.....	16	24
Struck by load, lowering or raising.....	21	1,533	19,485	.....	16	5
Load falling, breaking of cable or chain.....	6	1,135	6,335	1	4	1
Load falling, slipping of cable.....	6	73	1,278	.....	4	2
Load falling, breaking of hook.....	2	65	756	.....	2	.....
Load falling, slipping of hook.....	24	1,427	11,300	1	12	11
Load falling, breaking of sling.....	1	31	490	.....	1	.....
Load falling, slipping of hitch.....	7	123	2,044	.....	5	2
Load falling, failure of current on magnet.....	3	69	1,067	.....	3	.....
Objects falling from load or bucket.....	28	1,616	12,326	1	12	15
Falls from cranes or crane track, not in erecting or rigging.....	5	392	8,920	.....	8	3
Other and indefinite.....	8	1,098	7,859	1	2	5
Derricks and Jib Cranes.....	218	17,923	204,247	(1) 10	91	117
Struck by derrick or crane.....	7	738	11,558	.....	3	4
Fall of derrick or crane.....	4	1,117	18,030	(1) 1	2	1
Caught or struck by cable or chain.....	17	1,040	15,286	.....	11	6
Caught in machinery.....	9	90	1,404	.....	5	4
Caught or struck by hook or sling.....	52	2,121	28,437	1	24	27
Boom swinging.....	15	4,235	58,581	3	7	5
Boom or mast breaking.....	4	2,315	17,248	1	3	.....
Struck by swinging load.....	36	514	9,098	.....	13	23
Struck by load, lowering or raising.....	20	442	6,166	.....	8	12
Load falling, slipping of cable or hook.....	6	1,140	12,992	1	2	3
Load falling, breaking of cable or hook.....	2	213	3,276	.....	1	1
Load falling, breaking of sling.....	1	1	6	.....	.....	1
Load falling, breaking of machinery.....	1	1	14	.....	.....	1
Load falling, slipping of hitch.....	1	12	208	.....	.....	1
Load falling, other and indefinite.....	2	84	1,148	.....	1	1
Objects falling from load.....	25	2,358	12,686	2	7	16
Falls from crane load.....	1	19	356	.....	1	.....
Falls from derrick, crane cab or track, not in erecting or rigging.....	6	236	3,068	.....	2	4
Other and indefinite.....	9	1,247	4,685	1	1	7
Wood Stackers.....	1	4	42	.....	.....	1
Blocks and Tackles, Winches, Hand Hoists, Etc.	238	10,994	125,006	5	115	118
Objects falling from.....	60	3,996	41,769	.....	26	32
Caught in or struck by.....	95	2,645	34,987	1	49	45
Struck by load.....	16	1,178	11,460	1	5	10
Rope or cable breaking or slipping.....	47	1,764	26,040	.....	26	21
Other and indefinite.....	20	1,411	10,750	1	9	10
Unloading Machines.....	10	149	2,268	.....	5	5
Air Hoists.....	6	36	459	.....	1	5
Objects falling from.....	1	3	50	.....	.....	1
Caught in or struck by.....	1	2	46	.....	.....	1
Rope or cable breaking or slipping.....	3	22	280	.....	1	2
Other and indefinite.....	1	9	83	.....	.....	1
Overhead Trolleys.....	29	264	3,014	.....	14	15
Objects falling from.....	13	56	858	.....	4	9
Caught in or struck by.....	11	76	1,056	.....	7	4
Struck by load.....	1	3	38	.....	.....	1
Rope or cable breaking or slipping.....	1	39	679	.....	.....	.....
Other and indefinite.....	3	30	383	.....	.....	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
 NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
 AND BY CAUSE
 Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC. — Concluded						
Belt and Chain Conveyors.....	64	2,218	\$27,094	1	27	35
Objects falling from.....	6	139	3,020	1	4	2
Caught in or struck by.....	53	2,047	23,558	1	21	31
Rope or cable breaking or slipping.....	1	9	175	1	1	1
Other and indefinite.....	4	23	341	1	1	3
Screen Conveyors.....	1	46	779	1	1	1
Bucket Conveyors.....	59	4,430	53,533	3	37	19
Objects falling from.....	6	69	1,217	1	3	3
Caught in or struck by.....	51	2,361	29,974	1	34	16
Other and indefinite.....	2	2,000	22,342	2	—	—
Platform Conveyors and Escalators.....	15	385	7,642	—	10	5
Charging Machines.....	6	252	3,694	—	3	3
Hoists and Skips for Blast Furnaces, Etc.....	9	31	473	—	1	8
Worm or Screw Conveyors.....	6	171	2,677	—	3	3
Hoists and Conveyors, Other and Indefinite.....	34	3,032	32,441	1	43	45
Objects falling from.....	18	454	6,880	—	9	7
Caught in or struck by.....	53	1,150	17,625	—	20	27
Struck by load.....	6	50	687	—	3	3
Rope or cable breaking or slipping.....	4	175	2,416	—	1	3
Other and indefinite.....	15	1,203	4,833	1	9	5
Total — Hoisting and Conveying Apparatus	1,757	119,632	\$1,221,435	(3) 64	810	883
VEHICLES						
Steam and Electric Railways.....	416	41,788	\$385,250	(2) 33	104	279
Train wrecks.....	21	1,337	22,378	(1) 1	2	18
Collisions.....	15	1,139	19,821	(1) 1	1	13
Derailments.....	5	185	2,313	—	1	4
Car striking objects on track, not derailing.....	1	13	244	—	—	1
Falls from trains.....	176	9,293	106,289	5	40	131
Getting on or off, in motion.....	3	43	652	—	1	2
Getting on or off, at rest.....	68	1,198	21,048	—	8	60
Riding, sudden start or stop.....	2	52	958	—	1	1
Riding, slipping or loss of balance.....	5	1,611	24,536	1	2	—
Riding, contact with fixed structures.....	2	1,008	1,692	1	—	1
Falls from, loading and indefinite.....	96	5,481	57,409	—	28	65
Falls on board.....	34	423	7,492	—	8	30
Sudden start or stop.....	3	144	2,413	—	1	2
Slipping or loss of balance.....	17	179	3,269	—	2	15
Other and indefinite.....	14	100	1,810	—	1	13
Striking against objects while on board.....	2	43	784	—	2	—
Caught between cars.....	19	3,374	25,892	3	7	9
While coupling or uncoupling.....	10	1,174	9,613	1	3	6
Other and indefinite.....	9	2,200	16,279	2	4	3
Struck by trains.....	57	25,183	198,734	(1) 23	12	22
While repairing track.....	1	1,000	16,024	(1) 1	—	—
While crossing track.....	12	5,156	57,310	4	2	6
Working or walking on or near track.....	27	10,785	78,064	10	6	11
Other and indefinite.....	17	8,263	53,336	8	4	5
Other causes.....	107	2,135	23,681	1	37	68
Handling brakes.....	8	32	456	—	1	1
Objects falling from cars, not in loading.....	6	60	1,361	—	1	5
All other causes.....	95	2,043	21,884	1	35	69

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES—Continued						
Mine and Quarry Cars and Motors	69	2,791	\$24,813	2	16	51
Collisions	2	9	142	.....	1	1
Derailments	3	1,011	5,150	1	.....	2
Falls from cars	3	42	635	.....	1	2
Riding on, contact with rib or side structure	2	1,001	6,602	1	.....	1
Caught between, and overhead structure	2	13	239	.....	.....	2
Struck by cars, while coupling or switching	12	166	2,520	.....	6	6
Struck by cars, other and indefinite	23	438	7,634	.....	5	18
Lifting or pushing car	6	42	739	.....	2	4
Caught by car or load, in dumping or loading	5	18	306	.....	1	4
Objects falling from car	2	5	177	.....	.....	2
Mine and quarry cars, other and indefinite	9	43	669	.....	.....	9
Plant Trucks, Cars and Motors on Tracks	45	595	8,916	.....	16	29
Derailments	3	28	366	.....	1	2
Falls from cars	5	76	1,222	.....	2	3
Riding on, contact with rib or side structure	1	1	21	.....	.....	1
Struck by cars, while coupling or switching	6	48	639	.....	4	12
Struck by cars, other and indefinite	9	186	3,271	.....	4	5
Braking	1	5	71	.....	.....	1
Lifting or pushing car	6	16	216	.....	.....	6
Caught by car or load, in dumping or loading	1	(a)	3	.....	.....	1
Getting on or off car	1	1	30	.....	2	1
Objects falling from car	2	45	379	.....	2	.....
Plant trucks, etc., other and indefinite	10	190	2,698	.....	3	7
Contractor's Cars and Engines	1	24	550	.....	1	.....
Automobiles and Other Power Vehicles	4,791	287,669	2,824,234	(11) 175	1,478	3,138
Automobiles and motor trucks	4,451	272,254	2,699,567	(11) 166	1,372	2,913
Collisions, skidding	115	8,081	81,647	5	51	59
Collisions, breaking of parts	28	2,806	23,223	2	12	12
Collisions with cars and engines	51	11,490	67,002	11	8	32
Collisions with other vehicles and objects	797	70,982	629,445	(2) 53	245	499
Overturning, skidding or ditching	75	8,427	83,171	5	24	48
Overturning, breaking of parts	28	5,738	48,711	4	10	14
Overturning, all other	86	7,228	83,245	5	24	57
Struck by or caught between	712	73,393	714,489	(6) 46	214	452
Cranking	410	10,719	174,986	1	176	233
Engines	36	274	4,905	.....	17	19
Breaking of car or part	7	522	4,888	.....	1	6
Falls from	1,136	45,483	462,071	(3) 22	249	865
Objects falling from	123	3,613	52,391	1	45	77
Objects shifting on load	35	876	15,817	.....	12	23
Mechanical unloading	42	2,939	21,296	2	32	18
Wrecking cars	12	198	2,187	.....	5	7
Other and indefinite	760	19,552	238,073	9	257	494
Power, plant and platform trucks	104	2,236	24,070	1	33	70
Tractors	173	9,938	73,787	7	48	118
Railroad hand cars	8	1,060	2,680	1	2	5
Motorcycles	55	2,181	24,130	.....	23	32
Bicycles	86	579	9,188	.....	20	66
Airplanes	8	3,057	20,873	3	3	2
Animal Drawn Vehicles, except Mine Cars	200	9,302	112,807	(1) 3	54	143
Collisions with cars and engines	1	10	150	.....	1	.....
Collisions with other objects	2	12	241	.....	.....	2
Overturning	17	1,415	9,248	.....	7	10
Whiffletrees	4	130	1,049	.....	1	3

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES — Concluded						
Animal Drawn Vehicles, except Mine Cars — Concluded						
Falls from vehicles.....	98	4,862	\$62,357	(1) 2	19	77
Struck by or caught between vehicles.....	17	1,950	23,925	1	5	11
Objects falling from vehicles.....	3	13	171		1	2
Objects shifting on load.....	1	25	220		1	1
Breaking of vehicle or part.....	9	297	5,108		2	7
Mechanical unloading.....	2	9	75		1	1
Sudden start or stop.....	35	533	9,350		13	23
Animal drawn vehicles, other and indefinite.....	10	46	913		3	7
Animal Drawn Implements, Not Machinery.....	9	777	8,865		2	7
Water Craft.....	14	6,257	40,332	6	5	3
Capsizing.....	2	1,002	11,028	1		1
Hawsers and other ropes.....	1	1,000	1,300	1		
Falls from boats or jumping overboard.....	6	3,150	19,644	3	2	1
Falls into hatchway.....	2	1,068	7,520	1	1	
Water craft, other and indefinite.....	3	37	840		2	1
All Other Vehicles.....	7	2,113	7,955	2	2	3
Total — Vehicles.....	5,646	355,253	\$3,443,783	(14) 224	1,701	3,721
EXPLOSIONS, ELECTRICITY, HEAT, ETC.						
Boilers and Steam Pressure Apparatus.....	92	10,490	\$92,622	9	20	63
Steam boilers.....	47	6,655	49,781	6	12	29
<i>Explosion of steam boilers.....</i>	<i>26</i>	<i>6,399</i>	<i>46,873</i>	<i>6</i>	<i>7</i>	<i>12</i>
<i>Escaping steam and hot water.....</i>	<i>18</i>	<i>167</i>	<i>2,658</i>		<i>4</i>	<i>14</i>
<i>Other.....</i>	<i>4</i>	<i>89</i>	<i>1,262</i>		<i>1</i>	<i>3</i>
Steam pipes.....	19	271	4,525		3	15
Steam and hot water gauges.....	1	188	4,241		1	
Other and indefinite.....	25	3,876	34,075		4	18
Explosive Substances.....	351	36,829	377,887	(3) 28	97	226
Explosives, manufacturing and storing.....	2	1,081	6,636	1		
Explosives, transporting and handling.....	2	2	42			2
Blasting.....	26	3,867	61,899	(1) 2	11	13
<i>Premature shot.....</i>	<i>7</i>	<i>642</i>	<i>14,760</i>		<i>4</i>	<i>5</i>
<i>Misfire or delayed shot.....</i>	<i>1</i>	<i>1,000</i>	<i>6,575</i>			
<i>Other and indefinite.....</i>	<i>18</i>	<i>2,225</i>	<i>40,564</i>	(1) 1	7	10
Dust, explosion.....	2	162	3,249		1	1
Gas, explosion.....	88	5,521	56,946	(1) 5	12	71
Gasoline and other petroleum products.....	113	13,170	137,561	(1) 10	31	72
<i>Explosions of gasoline in automobiles.....</i>	<i>36</i>	<i>2,226</i>	<i>28,247</i>		<i>1</i>	<i>12</i>
<i>Other explosions of gasoline.....</i>	<i>77</i>	<i>10,944</i>	<i>109,314</i>	(1) 9	19	49
Other or indefinite explosions.....	118	13,026	111,554	10	41	67
High Pressure Apparatus.....	105	2,287	35,082		58	47
Bursting of ammonia apparatus.....	2	16	241			2
Bursting of other high pressure apparatus.....	47	1,212	19,493		28	10
Bursting, other and indefinite.....	56	1,059	15,348		30	26
Electricity.....	323	40,604	408,616	(1) 34	52	237
Trolley wire.....	4	80	1,710		2	2
Third rail.....	7	2,358	22,487	2	2	3
Transmission wire.....	49	24,524	227,131	22	13	14
Switchboard apparatus.....	1	87	1,716		1	2
Switches, controllers and fuses.....	59	2,427	24,730	2	10	47

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
EXPLOSIONS, ETC.—Concluded						
Electricity—Concluded						
Motors and generators.....	3	32	\$505		1	2
Electrical fixtures.....	22	1,178	30,094	(1) 1	3	18
Electrical appliances.....	40	1,314	10,006	2	2	37
Short circuits.....	86	3,399	35,304	2	10	74
Other.....	50	4,976	54,933	4	8	38
Conflagrations.....	32	8,238	43,737	8	3	21
Fires in buildings.....	31	8,236	43,706	8	3	20
Other fires.....	1	2	31			1
Hot Substances and Flames.....	2,192	49,040	439,596	32	218	1,942
Water.....	489	7,115	59,711	5	11	473
Asphalt, tar, pitch, etc.....	165	1,204	17,889		25	140
Other hot liquids.....	443	4,550	60,785	2	31	410
Molten metal.....	240	3,810	54,116	1	46	193
Explosions of molten metal.....	20	1,386	18,588	1	6	13
At furnace or cupola.....	24	183	3,371		4	20
Pouring, carrying, etc.....	116	1,207	17,808		16	100
Slag and all other.....	80	1,034	14,579		20	60
Radiant heat from incandescent metal.....	2	63	725		2	
Metal, not molten.....	9	18	314		1	8
Contact with hot surfaces.....	109	3,243	34,663	2	10	97
Oxyacetylene and electric cutting and welding.....	43	1,198	13,072	1	5	37
Flames, clothing.....	59	11,459	53,037	10	10	39
Flames, other.....	325	7,235	62,528	4	50	271
Hot glass.....	2	9	115			1
Ignition of gasoline, oil, etc.....	125	6,324	55,853	5	15	105
Hot objects, other and indefinite.....	181	2,812	26,788	2	12	167
Total—Explosions, Electricity, Heat, Etc.	3,095	147,488	\$1,397,540	(4) 111	448	2,536

HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Poisonous Substances.....	240	22,339	\$182,405	(2) 19	6	215
Carbon monoxide and dioxide.....	40	9,435	60,212	(1) 9	1	30
Poison ivy and other plants.....	97	178	2,283			97
Illuminating gas.....	13	3,152	35,668	(1) 3		10
Hydrocyanic acid, cyanide gases and fumes.....	1	30	270			1
Septic infection.....	9	207	4,408		1	8
Poisonous substances, other and indefinite.....	80	9,337	79,564	7	4	69
Corrosive Substances.....	680	10,668	150,180	(1) 2	115	563
Lime.....	218	3,489	55,655		33	185
Cement.....	72	588	7,549		5	67
Acids.....	157	2,730	26,247	1	45	111
Alkalies.....	97	2,967	45,689	(1) 1	16	80
Other chemicals.....	136	894	15,040		16	120
Irritant but Not Corrosive Substances.....	19	56	\$30			11
Occupational Diseases From §.....	1,414	37,876	349,498	(2) 18	66	1,330
Anthrax.....	9	1,438	6,888	1	3	5
Lead poisoning.....	59	11,237	109,366	(1) 8	2	49
Mercury.....	7	103	1,189			7
Wood alcohol.....	8	1,031	2,099	1		5
Nitro and amido derivatives of benzol.....	54	4,987	36,446	3	2	49
Carbon bisulphide.....	3	25	477			3
Nitrous fumes.....	1	1	32			1
Nickel carbonyl.....	3	5	81			3

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ See also "Poisonous Substances" and "Corrosive Substances".

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability					
				Death and permanent total*	Permanent partial	Temporary			
HARMFUL SUBSTANCES, ETC.—Concluded									
Occupational Diseases From §—Concluded									
Dope (lacquers).....	7	30	\$411	.....	.....	7	
Formaldehyde.....	7	25	269	.....	.....	7	
Chromic acid (chrome ulcer).....	12	55	659	.....	.....	12	
Handling tar, pitch, etc.	3	120	1,475	.....	1	1		
Carbon monoxide.....	8	228	4,844	.....	1	7		
Sulphuric, hydrochloric and hydrofluoric acid Fumes from petroleum products (respiratory and gastro-intestinal disorders).....	5	57	519	.....	.....	5	
Continuous friction, rubbing, etc. (blisters and abrasions).....	285	1,737	23,177	.....	35	250		
Continuous vibration, pressure, etc. (bursitis or synovitis).....	132	1,162	14,157	.....	7	125		
Direct contact with harmful alkalies, acids, etc. (dermatitis).....	660	8,915	108,504	.....	8	652		
Silica and dust.....	13	3,381	9,503	(1) 3	.....	10		
All other causes.....	137	2,331	23,626	1	7	129			
Total—Harmful Substances and Occupa- tional Activity.....	2,353	70,939	\$682,913	(5) 39	187	2,127			

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS
INTO ELEVATOR SHAFTS

Falls on Stairs and Steps.....	2,781	88,295	\$863,973	(3) 29	576	2,176
Due to handling objects.....	382	9,682	94,601	3	70	303
Slipping on wet steps.....	88	2,429	18,942	1	8	79
Slipping on icy steps.....	49	2,164	16,020	1	7	41
Slipping or loss of balance (a. o. c.)‡.....	1,252	38,575	426,260	(1) 9	262	981
Stumbling, misstepping, heel catching, etc.	561	12,176	142,490	(1) 3	126	432
Falling over loose objects on stairs.....	61	3,468	28,810	1	14	40
Knocked down stairs.....	3	111	1,188	.....	1	2
Defective or broken stairs.....	67	2,305	25,139	(1) 1	8	58
Slipping or breaking of tool.....	3	53	1,192	.....	1	2
Other and indefinite.....	315	17,332	109,333	10	73	232
Falls from Ladders.....	1,779	84,909	1,019,991	(5) 29	545	1,205
Breaking of ladder or parts.....	156	7,840	95,559	(1) 3	49	104
Slipping, twisting or fall of ladder.....	625	29,028	378,468	(2) 5	216	404
Knocked off ladder.....	35	2,707	36,936	.....	21	14
Falls from ladders while handling objects.....	93	5,019	47,996	3	27	63
Slipping of foot or loss of balance.....	566	19,911	268,581	(1) 6	150	410
Falling in getting on or off.....	69	1,120	18,097	.....	20	49
Slipping or breaking of tool.....	22	2,089	22,163	1	1	12
Other and indefinite.....	213	17,195	152,191	(1) 11	53	149
Falls from Scaffolds and Stagings.....	7,761	72,297	876,696	(5) 35	251	479
Breaking or slipping of scaffold.....	293	27,407	363,910	(1) 9	109	175
Breaking of tackle or support.....	34	4,857	71,972	2	18	14
Tilting of scaffold.....	7	53	961	.....	7	7
Tilting or falling of loose plank.....	32	1,770	27,711	(1) 1	13	18
Defective or broken surfaces.....	27	1,409	12,276	1	5	21
Falls from scaffolds while handling objects.....	29	2,080	31,203	1	11	17
Slipping or loss of balance.....	171	13,693	177,357	(2) 6	47	118
Falling over loose objects on scaffold.....	7	194	3,874	.....	3	1
Knocked off scaffold.....	12	1,423	16,848	1	1	7
Falling in getting on or off.....	52	2,814	18,405	2	8	42
Slipping or breaking of tool.....	7	206	4,130	.....	1	1
Other and indefinite.....	95	16,391	148,249	(1) 13	31	51

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ See also "Poisonous Substances" and "Corrosive Substances".

§ Not otherwise classified.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLS OF WORKERS, ETC.—Concluded						
Falls from Other Elevations.....	1,989	156,023	\$1,672,482	(5)	86	539
Benches, boxes, chairs and tables.....	604	17,558	188,591		7	114
Structures not in erection or demolition.....	25	8,962	60,097		7	6
Cranes, derricks, elevators and hoists in erection and rigging.....	3	10	224			3
Elevated bins, pockets and tanks.....	25	2,798	23,319		2	10
Structures in erection or demolition.....	190	34,215	390,269	(1)	20	59
Temporary floors.....	2	180	3,574			1
Boilers, engines and machines.....	118	5,985	74,603		2	35
Files of material.....	129	6,888	68,270		3	33
Poles, trees and towers.....	71	5,428	80,934	(1)	2	28
Roofs.....	87	15,649	129,246		11	34
Runways, balconies and platforms.....	407	21,616	319,177	(3)	8	116
Loading platforms.....	57	720	13,527			5
Gangplanks.....	11	2,149	22,243		1	3
Tramways and trestles (including railroads).....	4	1,218	4,666		1	2
Window and wall openings.....	64	23,699	164,611		21	26
All other elevations.....	192	8,948	129,131		1	84
Into Excavations, Pits and Openings.....	481	36,450	364,088	(2)	19	95
Bins, vats, etc., with hot or corrosive substances.....	41	5,303	43,725		5	4
Bins, pits and vats, other.....	105	9,644	119,955	(1)	5	23
Floor openings, except elevator shafts.....	163	13,281	118,307		5	31
Manholes (street, sidewalk, etc.).....	16	150	1,862			4
Quarry from bench or face.....	3	8	112			3
Excavations, ditches and other openings.....	153	8,064	80,127	(1)	4	33
Falls on Level Surfaces.....	9,803	207,499	2,708,129	(6)	39	2,091
Slipping of foot.....	3,463	81,287	1,119,286	(2)	14	845
Falls due to defective surfaces.....	229	4,109	62,824			45
Slipping or breaking of tools or work.....	318	9,350	107,206		3	72
Stumbling over fixed objects.....	122	3,690	46,712		1	31
Falls when handling bulky objects.....	2,733	48,961	615,504	(3)	1	363
Stumbling over loose objects.....	1,239	30,247	372,312	(1)	8	286
Falls with injuries due to objects in hands.....	786	12,694	160,270		2	231
Injury or fall due to foot catching.....	145	2,353	35,619			41
Other and indefinite.....	768	14,808	188,396		3	177
Other and Indefinite Falls of Workers.....	99	3,846	25,010			14
Total—Falls of Workers.....	17,698	649,319	\$7,530,369	(26)	241	4,111
STEPPING ON AND STRIKING OBJECTS						
Stepping on Objects.....	44	4,795	\$54,795		2	28
Nails.....	520	2,999	36,528		1	19
Sharp objects, other and indefinite.....	124	1,796	18,267		1	9
Striking Objects.....	3,446	51,667	622,721	(2)	19	632
Nails.....	174	1,810	22,178		1	15
Sharp projections from walls, etc.....	329	3,450	33,531		1	53
Fixed objects.....	1,632	28,313	336,921	(1)	12	337
Fellow worker.....	89	1,985	24,634			23
Loose objects, and other or indefinite.....	1,195	14,803	185,969	(1)	5	197
Struck by objects stepped on.....	27	1,306	19,488			7
Total—Stepping On and Striking Objects	4,090	56,462	\$677,516	(2)	21	640
* Figures in parentheses show the number of permanent total disability cases included.						
† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.						

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLING OBJECTS, NOT IN HANDLING						
Collapses.	135	23,705	\$169,337	19	9	87
Buildings and walls.	44	16,184	110,477	14	8	22
Piles.	76	3,083	34,717	1	17	58
Scaffolds and stagings.	6	166	2,235	.....	1	5
Chutes, conveyors, slides and screens.	1	1,000	7,440	1	.....	.....
Other and indefinite.	8	3,272	14,468	3	3	2
Objects Falling from Elevations.	1,321	36,624	435,670	(2)	11	440
Structures not in erection or demolition.	13	261	4,074	.....	6	7
Trestles and tramways.	1	7	99	.....	.....	1
Runways, balconies and platforms.	13	198	3,137	.....	5	8
Racks and shelves.	88	1,066	11,646	.....	31	57
Floor openings, except elevator shafts.	10	232	3,630	.....	4	6
Chutes, conveyors, slides and screens.	40	625	8,630	.....	9	31
Machines and work benches.	371	3,551	56,095	.....	140	231
Piles.	180	4,826	55,538	1	60	119
Structures in erection or demolition.	106	7,472	67,827	2	46	58
Scaffolds and stagings.	38	1,185	20,496	.....	11	27
Other and indefinite.	461	17,201	204,498	(2)	8	128
Trees Falling.	90	4,864	40,173	1	32	57
Fall of trees in felling.	54	3,059	25,608	.....	15	39
Trees lodged in felling.	9	1,098	7,067	1	3	5
Kick-back of trees in felling.	10	155	1,630	.....	0	4
Spring poles.	1	26	209	.....	1	.....
Limbs, not in felling trees.	14	323	3,134	.....	6	8
Trees, not in felling.	2	203	2,525	.....	1	1
Objects Tipping Over.	290	5,004	44,578	1	51	207
Objects Falling into Excavations.	79	5,903	58,672	(1)	3	10
Ditches and trenches.	50	2,707	28,405	(1)	2	12
Other and indefinite.	29	3,196	30,267	.....	1	7
Cave-ins.	149	15,300	111,812	(1)	8	33
Ditches and trenches.	93	7,072	54,280	.....	4	16
Tunnels.	1	10	154	.....	.....	1
Sand banks and all other cave-ins.	55	8,218	57,369	(1)	4	17
Falling Objects in Mines, Quarries and Tunnels	81	8,783	72,300	7	26	48
Coal, rock and ore at working face.	29	3,934	31,258	3	11	15
Coal, rock and ore in chutes, manways, etc.	23	2,138	22,198	2	7	14
Roof in working places.	9	2,059	8,582	2	3	4
Timbers.	13	268	2,888	.....	3	10
From surface into shaft.	1	1	8	.....	.....	1
Cave-in of mine or mine squeeze.	1	14	213	.....	.....	1
Other and indefinite.	5	369	7,153	.....	2	3
Other Falling and Shifting Objects.	209	4,732	51,378	2	61	146
Objects falling due to wind, etc.	14	353	6,283	.....	4	10
Other falling and shifting objects.	195	4,379	45,095	2	57	136
Falling Objects, Handling Not Determined.	920	13,488	194,333	(2)	4	346
Total — Falling Objects, Not in Handling.	3,274	118,403	\$1,178,253	(6)	57	2,150

HANDLING OBJECTS

Heavy and Bulky Objects.	18,971	290,336	\$3,709,367	(10)	73	3,643	15,255
Objects dropped while handling, carrying, etc.	3,281	43,013	570,711	10	1,324	1,947	.....
Objects handled by fellow worker.	496	9,162	120,510	2	184	310	.....
Objects dropped or falling while loading.	1,273	18,339	252,929	4	471	798	.....
Objects dropped or falling while piling.	249	3,092	47,765	.....	98	151	.....

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HANDLING OBJECTS—Concluded						
Heavy and Bulky Objects—Concluded						
Caught between object handled and other object	1,517	16,622	\$258,661		771	746
Strain in handling	10,273	166,857	2,010,027	(9) 49	165	10,059
Objects slipping, breaking and other or indefinite	1,882	33,251	448,784	(1) 8	830	1,244
Sharp and Rough Objects	4,833	62,614	755,342	(1) 22	1,037	3,774
Glass	888	11,117	138,561	3	221	664
Nails	356	3,211	51,909		61	295
Wire and metal strap	479	5,143	64,701	2	95	382
Sheet metal and sheet metal objects	528	8,436	112,216	(1) 4	125	306
Wood slivers	552	10,541	115,009	4	124	424
Metal slivers	431	4,741	69,028	1	95	335
Castings	10	1,050	9,818	1	1	8
Bones	149	980	16,328		25	124
In hands of fellow worker	1	196	3,408		1	
Pins and sharp objects, other and indefinite	1,439	17,199	174,364	7	289	1,143
Hand Trucks, Carts and Wheelbarrows	1,225	15,394	178,224	4	337	884
Struck by truck in handling	373	3,892	41,199	1	78	204
Struck by truck handled by fellow worker	91	2,303	20,008	1	20	70
Caught between truck and other object	157	2,243	23,178	1	48	108
Objects falling from truck, not in handling	186	2,333	36,258		64	122
Overturning	117	2,463	27,034	1	33	83
Running over hands or feet	205	1,101	16,433		73	132
Other and indefinite	96	1,059	14,114		21	75
Continued Wear from Handling and Friction Burns	166	530	6,933		14	92
Handling Objects, Not Heavy, Bulky or Sharp	58	672	11,036		14	44
Total—Handling Objects	25,193	369,546	\$4,660,902	(11) 99	5,045	20,649
HAND TOOLS						
In Hands of Injured Worker	4,946	75,575	\$1,049,758	(2) 14	1,667	3,265
Glancing and slipping of tool in use	4,013	45,488	620,304	(1) 9	1,307	2,697
Breaking and coming apart of tool	143	2,863	34,340	1	59	83
Flying pieces set in motion by tool	684	24,254	372,944	(1) 2	278	404
Nails and spikes	46	2,392	40,493		23	23
Metal chips	329	12,004	202,145		135	194
Stone	122	4,186	53,036	(1) 1	39	82
Other and indefinite	187	6,692	77,271	1	81	105
Tools in hands of injured worker, other and indefinite	106	2,970	22,170	2	23	81
In Hands of Fellow Worker	351	7,346	96,897	(1) 2	175	174
Glancing and slipping of tool in use	288	3,863	58,084		143	145
Breaking and coming apart of tool	9	1,071	2,608	1	4	4
Flying pieces set in motion by tool	49	2,379	35,816	(1) 1	26	22
Nails and spikes	3	377	8,407		3	
Metal chips	17	1,303	14,106	(1) 1	7	7
Stone	16	264	3,543		8	8
Other and indefinite	13	445	9,760		8	5
Tools in hands of fellow worker, other and indefinite	5	33	389		2	3
Total—Hand Tools	5,297	82,921	\$1,146,655	(3) 16	1,842	3,439

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 21—(Concluded)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1937

Causes of accidents	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total [‡]	Permanent partial	Temporary
ANIMALS						
Draft Animals	245	17,219	\$198,089	(2) 10	66	169
Kicked and stepped on by animals.....	107	4,787	83,989	(2) 1	25	80
Bites.....	4	27	513	.....	1	3
Runaways.....	44	6,799	39,967	1	11	27
Other and indefinite.....	90	5,606	73,620	.....	29	59
Other Animals	142	2,061	17,738	1	25	116
Total — Animals	387	19,280	\$215,827	(2) 11	91	285
MISCELLANEOUS						
Miscellaneous						
Flying particles and objects not from machines and hand tools.....	791	17,044	\$249,055	2	291	498
Doors, windows, covers and gates.....	969	13,372	170,396	(1) 1	377	589
Drenching, not drowning.....	10	1,063	6,642	1	.....	9
Heat prostration and sunstroke.....	62	7,482	41,056	7	.....	55
Cold including frost bite.....	61	6,137	61,644	3	25	33
Lightning.....	4	1,003	2,962	1	.....	3
Violence of fellow worker.....	70	2,794	33,773	1	25	44
Violence, all other.....	486	28,786	288,987	(1) 14	209	263
Wrestling, sparring, chasing and horseplay.....	13	102	1,610	.....	2	11
Compressed air, not explosions.....	45	2,850	26,989	1	22	22
Cyclones, floods, earthquakes, etc.....	1	60	1,500	.....	.....	1
Miscellaneous accidents, other.....	151	7,284	45,367	1	22	123
Injuries due to position assumed.....	379	5,718	80,337	1	38	340
Swallowing objects.....	5	14	119	.....	.....	5
Accidental discharge of firearms.....	11	1,133	11,161	1	4	1
Total — Miscellaneous	3,058	94,842	\$991,598	(2) 41	1,015	2,002
INDEFINITE HISTORY OF ACCIDENT						
Indefinite History of Accident	131	2,678	\$24,275	2	14	115
Grand Total — All Accidents	80,929	2,319,527	\$26,335,690	(81) 975	21,473	58,481

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS						
Prime Movers.....	126	2,449	\$47,941	.....	83	43
Steam engines.....	4	37	659	.....	3	1
Gasoline engines.....	74	1,843	36,441	.....	49	25
Electric motors and dynamos.....	45	519	9,973	.....	28	17
Compressed air motors.....	3	28	458	.....	1	.....
Water motors.....	1	10	100	.....	1	.....
Prime movers, other and indefinite.....	1	12	310	.....	1	.....
Power Transmission Apparatus.....	247	10,306	159,452	1	162	84
Shafts.....	18	1,095	16,355	.....	12	6
Shaft collars and couplings.....	1	(a)	3	.....	1	.....
Belts and pulleys.....	132	6,201	92,171	1	82	49
Shifting.....	35	2,657	54,079	1	20	14
Caught by belt.....	32	880	15,305	.....	20	12
Caught b'tw'ns belt and pulley.....	24	1,412	20,500	.....	18	6
Belt hooks and fasteners.....	9	77	1,137	.....	3	6
Struck by breaking belt.....	8	451	7,828	.....	5	3
Other and indefinite.....	24	724	13,322	.....	16	8
Chains and sprockets.....	23	661	8,782	.....	13	10
Ropes, cables and drums.....	14	653	11,967	.....	10	4
Cogs, cams, gears and friction wheels.....	58	1,692	30,084	.....	44	14
Clutches.....	1	4	90	.....	1	.....
POWER WORKING MACHINES						
Stone, Clay and Glass Products Machines.....	52	4,300	57,923	(1)	2	35
Brick and tile making machines.....	8	1,354	5,737	1	3	4
Cement making machines.....	7	72	1,055	.....	5	2
Glass making machines.....	13	146	2,758	.....	8	5
Polishing wheels.....	9	20	268	.....	1	2
Surface grinding and cutting machines.....	6	55	1,080	.....	4	2
Presses.....	1	28	555	.....	1	.....
Bottle making machines.....	1	23	575	.....	1	.....
Other and indefinite.....	2	20	305	.....	1	1
Pottery making machines.....	2	18	351	.....	1	1
Emery and carborundum making machines.....	2	33	503	.....	1	1
Stone and ore crushers and grinders.....	7	2,277	41,190	(1)	1	5
Stone working machines.....	13	400	6,329	.....	12	1
Metal Working Machines.....	2,373	63,445	948,983	(2)	8	1,466
Abrasive wheels.....	285	5,938	86,806	2	154	129
Bending and straightening machines.....	67	2,004	36,314	.....	48	19
Pipe cutting and threading machines.....	26	353	5,721	.....	17	9
Boring machines.....	7	127	2,233	.....	6	1
Drills.....	103	1,713	30,639	.....	14	39
Milling and gear cutting machines.....	81	1,784	32,522	.....	58	23
Broaching machines.....	1	63	1,088	.....	1	.....
Gear cutting machines.....	8	314	6,090	.....	6	2
Key seaters.....	1	1	11	.....	1	.....
Milling machines.....	65	1,116	20,081	.....	45	20
Profilers.....	1	31	381	.....	1	.....
Slotters.....	2	87	1,360	.....	2	.....
Other and indefinite.....	3	182	3,511	.....	3	.....
Hammers and forging machines.....	40	2,301	35,810	.....	20	11
Drop hammers.....	18	1,495	19,499	.....	13	5
Forging hammers.....	15	586	12,208	.....	11	4
Swaging machines.....	1	8	77	.....	1	1
Other and indefinite.....	6	212	4,026	.....	5	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Metal Working Machines—Concluded						
Lathe and automatic screw machines.....	169	3,538	\$64,105	.....	97	72
Lathes.....	146	3,014	55,226	.....	82	68
Screw machines.....	24	524	8,879	.....	16	9
Cleaning mills, tumblers, etc.....	7	539	7,638	.....	3	4
Molding machines.....	30	264	3,948	.....	19	11
Planers and shapers.....	17	501	9,204	.....	13	4
Polishers and buffers.....	150	4,971	74,335	1	89	60
Portable power tools.....	298	6,668	110,350	(1) 1	155	142
Power presses.....	572	19,669	260,587	1	418	153
Arbor presses.....	8	21	342	.....	1	2
Forging presses.....	7	288	4,655	.....	4	3
Car wheel and tire presses.....	1	25	468	.....	1	.....
Draw presses.....	1	312	6,265	.....	1	.....
Forming presses.....	5	632	6,845	.....	5	.....
Flanging presses.....	9	122	1,860	.....	7	2
Embossing presses.....	2	13	110	.....	1	1
Punch, stamping and trimming presses.....	262	8,980	128,738	.....	198	64
Punch and eyeletting machines.....	17	82	882	.....	4	13
Punches and riveting machines.....	8	123	2,613	.....	4	4
Other and indefinite.....	257	9,171	113,029	1	192	64
Hand and foot presses.....	113	1,226	13,617	.....	41	72
Rolling and blooming mills.....	16	702	13,971	.....	14	3
Metal saws.....	75	919	17,377	.....	38	37
Band saws.....	3	3	57	.....	3	.....
Circular saws.....	47	588	11,417	.....	26	21
Hack saws.....	7	40	815	.....	2	5
Other and indefinite.....	18	288	5,088	.....	10	8
Metal shears and cutting machines.....	169	4,912	68,980	1	116	52
Welding and heat cutting machines.....	13	94	1,774	.....	6	7
Wire working machines.....	47	682	9,664	.....	24	23
Cable making machines.....	1	1,000	2,868	1	.....	.....
Wire and tube drawing machines.....	0	357	5,759	.....	5	4
Hydraulic, pneumatic and screw presses.....	7	225	4,259	.....	0	1
Automatic can making machines.....	4	129	2,588	.....	4	.....
Metal working machines, other and indefinite	67	2,829	47,914	(1) 1	42	24
Wood Working Machines	1,042	31,570	465,020	3	667	372
Boring machines and drills.....	12	146	2,579	.....	6	6
Cork working machines.....	14	103	1,362	.....	6	8
Lathes.....	26	355	5,321	.....	15	11
Mortising machines.....	4	77	1,184	.....	3	1
Nailing machines.....	6	210	2,887	.....	4	2
Tenoning, planing and molding machines.....	204	4,048	68,468	.....	131	73
Edgers.....	4	44	605	.....	1	3
Jointers.....	98	1,757	30,236	.....	70	28
Matchers, rabbetting.....	1	28	352	.....	1	.....
Molders.....	13	461	7,848	.....	10	3
Planers.....	74	1,869	24,779	.....	42	18
Stickers.....	5	295	3,720	.....	3	2
Tenoning and gaining machines.....	1	73	705	.....	1	.....
Rossers.....	1	1	9	.....	.....	1
Other and indefinite.....	7	25	514	.....	3	4
Presses (woodworking).....	8	157	1,655	.....	6	2
Sanding machines.....	30	450	5,080	.....	8	22
Band, scroll and jig saws.....	37	935	14,656	.....	31	6
Circular, universal and table saws.....	585	22,395	320,895	3	404	178
Circular and table saws.....	275	10,658	162,063	1	202	78

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Wood Working Machines—Concluded						
Circular saws (lumber mill).....	3	4	\$49	.....	.....	3
Gaining machines.....	1	650	4,605	.....	.....	1
Gang, circular and edger saws.....	1	146	1,706	.....	1	.....
Swing saws.....	3	241	2,572	.....	2	1
Dado saws.....	6	302	3,406	.....	4	2
Other and indefinite.....	296	10,394	146,494	2	195	99
Shapers.....	69	1,960	32,097	.....	42	27
Shapers.....	52	998	15,738	.....	17	15
Variety machines and friezers.....	16	659	11,115	.....	11	5
Other and indefinite.....	21	303	5,246	.....	14	7
Veneering machines.....	13	262	2,186	.....	1	9
Brush and broom making machines.....	15	274	3,169	.....	4	11
Wood working machines, other and indefinite	19	198	3,501	.....	3	16
Leather Working Machines—Tanneries.	34	872	15,919	.....	10	24
Buffing drums.....	2	48	909	.....	1	1
Other drums and paddle vats.....	2	46	448	.....	.....	2
Fur working machines.....	11	295	5,580	.....	4	7
Fleshing, skinning and shaving machines.....	2	4	89	.....	.....	2
Rolling, felting and glazing jacks.....	8	130	2,259	.....	2	6
Setting up and setting out machines.....	2	263	5,749	.....	2	.....
Splitting machines.....	2	15	115	.....	.....	2
Unhairing machines.....	1	3	67	.....	.....	1
Other and indefinite.....	4	68	703	.....	1	3
Leather Products Machines.	232	3,101	47,694	.....	68	164
Cutting, skinning and slitting machines.....	56	704	10,485	.....	15	41
Punching and pressing machines.....	66	1,366	18,511	.....	23	43
Sewing machines.....	22	113	1,389	.....	6	16
Buffing machines.....	4	43	404	.....	2	2
Other shoe making machines.....	82	871	16,864	.....	21	51
Other and indefinite.....	2	4	41	.....	1	1
Paper Making Machines.	124	3,932	54,859	1	64	59
Barkers, chippers, splitters and grinders.....	9	175	2,318	.....	6	3
Chippers.....	2	69	856	.....	2	.....
Grinders.....	4	76	991	.....	2	2
Splitters.....	3	41	491	.....	1	1
Beaters, including rag washers.....	4	22	306	.....	3	1
Paper machines.....	57	2,748	36,822	1	30	26
Head boz.....	1	17	258	.....	1	.....
Suction roll.....	1	126	3,091	.....	1	.....
Couch roll.....	1	15	168	.....	1	.....
Dryers.....	9	394	4,850	.....	3	6
Calendars.....	18	911	14,991	.....	12	6
Doctors.....	2	6	109	.....	1	1
Other and indefinite.....	25	1,279	13,355	1	11	13
Rolls and winders.....	24	427	7,454	.....	10	14
Cutters and slitters.....	15	379	4,544	.....	7	8
Choppers.....	1	15	245	.....	1	.....
Digestors and agitators.....	1	3	33	.....	.....	1
Paper coating machines.....	5	54	1,247	.....	1	4
Paper making machines, other and indefinite	8	109	1,890	.....	1	2

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Paper Products Machines.	288	9,066	\$124,669	1	158	129
Paper cup machines.	16	362	4,727	...	9	7
Tube machines.	3	43	567	...	8	...
Automatic box making machines.	33	676	10,713	...	20	13
Covering machines.	20	252	3,253	...	7	13
Cutting and punching machines.	87	2,828	44,849	...	54	33
Die cutters.	24	813	11,354	...	16	...
Guillotines.	1	1	21	...	...	1
Hand paper cutters.	3	71	1,253	...	2	1
Perforators.	2	30	336	...	1	1
Punches.	5	205	2,881	...	3	2
Saws.	3	29	353	...	2	1
Other and indefinite.	49	1,679	28,071	...	30	19
Paper balers.	35	2,193	17,275	1	17	17
Doming and ending machines.	8	160	2,646	...	8	4
Doming machines.	2	26	566	...	1	1
Corrugating machines.	1	30	556	...	1	...
Ending machines.	5	104	1,524	...	2	3
Corner staying machines.	4	17	200	...	1	3
Bag and envelope making machines.	23	588	9,062	...	11	12
Paper finishing machines.	1	26	579	...	1	1
Embossing rolls and calenders.	3	31	315	...	2	1
Creasing and folding machines.	8	259	4,819	...	7	1
Embossing presses.	16	738	13,215	...	9	7
Paper products machines, other and indefinite	30	893	12,449	...	13	17
Printing and Bookbinding Machines.	351	5,910	111,312	184	167	
Composing machines.	30	256	5,456	...	13	17
Linotypes.	24	179	4,015	...	10	14
Type casters.	1	12	100	...	...	1
Other and indefinite.	5	65	1,341	...	...	2
Printing presses.	234	4,665	89,906	...	130	104
Web newspaper presses.	29	852	20,095	...	17	12
Flat bed, cylinder or book presses.	1	5	58	...	...	1
Job platen presses.	5	169	2,164	...	...	...
Automatic presses.	46	777	16,356	...	28	18
Other and indefinite.	153	2,862	51,238	...	82	71
Binding presses.	1	220	3,852	...	1	...
Sewing and stitching machines.	52	316	3,753	...	18	34
Wire stitchers.	19	94	1,071	...	7	12
Wire staplers.	3	24	441	...	1	2
Other and indefinite.	30	198	2,241	...	10	20
Other printing machines.	12	165	2,643	...	7	5
Other bookbinding machines.	22	288	5,702	...	15	7
Textile Machines.	1,014	16,826	229,315	3	325	136
Washers.	1	10	170	...	...	1
Dryers.	4	153	1,400	...	2	2
Opening and cleaning machines.	22	1,280	20,328	...	17	5
Carding and combing machines.	38	3,033	39,664	1	25	12
Cards.	22	2,097	22,881	1	14	7
Combs.	3	33	278	...	2	1
Garnets.	10	586	9,670	...	7	...
Slubbers.	1	85	1,030	...	1	...
Other and indefinite.	2	232	5,805	...	1	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Textile Machines—Concluded						
Spinning machines.....	21	239	\$3,470	.....	9	12
Jacks and mules.....	6	34	564	.....	2	4
Spinning frames.....	3	80	1,346	.....	2	1
Drawing frames.....	1	(a)	2	.....	1	1
Other and indefinite.....	11	125	1,658	.....	5	6
Weaving machines.....	53	967	14,577	.....	22	31
Looms.....	39	549	7,110	.....	13	26
Warpers.....	2	53	943	.....	2	.....
Other and indefinite.....	12	305	6,524	.....	7	5
Dyeing, finishing and printing machines.....	39	1,566	20,559	.....	26	13
Pile cutting machines.....	1	4	92	.....	1	.....
Braiding, knitting and lace making machines.....	45	296	4,396	.....	13	32
Rope making machines.....	14	1,226	5,933	.....	7	6
Sewing machines.....	464	4,150	52,499	.....	100	363
Cloth cutting and stamping machines.....	245	2,578	49,175	.....	73	172
Hat making machines.....	15	303	4,037	.....	8	7
Coating and inlaying machines.....	6	55	800	.....	4	2
Winders, doublers and quillers.....	23	637	8,702	.....	11	12
Textile machines, other and indefinite.....	23	329	3,513	.....	7	16
Laundry Machines.....	314	7,535	93,316	(1) 1	126	191
Centrifugal extractors.....	6	64	1,328	.....	1	5
Carpet cleaners and tumblers.....	12	455	4,508	.....	6	6
Ironing machines.....	227	4,725	61,917	(1) 1	81	145
Body ironers.....	118	972	13,634	.....	41	77
Mangles.....	100	3,709	47,705	(1) 1	38	61
Other and indefinite.....	9	44	578	.....	1	7
Washing machines.....	32	1,418	14,521	.....	13	19
Wringers and other or indefinite.....	37	873	11,042	.....	19	18
Food Products Machines.....	854	17,290	263,181	.....	429	425
Cleaning, preparing and sorting machines.....	24	299	2,667	.....	12	12
Milling and grinding machines.....	17	199	2,869	.....	9	8
Mixing machines and kettles.....	65	3,645	58,608	.....	41	24
Dough mixers.....	48	3,400	54,707	.....	38	15
Other mixing machines and kettles.....	17	245	3,901	.....	3	9
Cookers and ovens.....	1	7	103	.....	.....	1
Shaping and forming machines.....	91	1,864	29,277	.....	53	38
Cutting and chopping machines.....	399	6,485	97,569	.....	183	216
Candy making machines.....	22	286	3,883	.....	13	9
Ice crushers and cutting machines.....	55	1,263	18,107	.....	28	27
Packing machines, all kinds.....	53	894	10,672	.....	25	28
Bottling machines.....	51	798	13,348	.....	23	23
Tobacco working machines.....	1	50	559	.....	3	5
Stamping presses.....	1	4	69	.....	1	.....
Centrifugal extractors and separators.....	1	12	230	.....	1	.....
Dishwashing and cleaning machines.....	25	613	10,192	.....	10	15
Roasting and drying machines.....	3	104	1,480	.....	2	1
Food products machines, other and indefinite.....	38	767	13,548	.....	20	18
Farm Machines.....	40	1,783	15,717	1	11	18
Feed and ensilage cutting machines.....	5	42	434	.....	3	2
Harvesters and mowers.....	18	321	3,864	.....	10	8
Threshers.....	1	10	86	.....	1	1
Hay presses and balers.....	1	6	48	.....	1	1
Plows, harrows and other farm machines.....	14	1,404	11,285	.....	7	6

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanently partial	Temporary
MACHINERY, ETC. — Concluded						
Construction Machines	400	14,252	\$176,353	5	192	214
Concrete mixers.....	88	2,696	22,376	1	43	44
Rock drills.....	78	1,133	18,518	.....	37	41
Pile drivers.....	12	1,284	21,511	1	5	1
Road rollers and graders.....	52	3,022	35,213	.....	21	31
Grouting machines and cement guns.....	1	1	25	.....	.....	1
Well drills.....	15	360	5,834	.....	7	8
Trench and ditch digging machines.....	1	8	88	.....	1	.....
Power shovels and dredging machines.....	83	3,465	37,148	1	35	47
Construction machines, other and indefinite.....	79	2,283	35,640	.....	43	36
Chemical Products Machines	33	1,320	21,787	.....	17	16
Grinding machines.....	3	262	3,537	.....	2	1
Agitating mixers, vats and kettles.....	3	204	4,502	.....	2	1
Furnaces, dryers, ovens and evaporators.....	1	221	2,047	.....	1	.....
Calenders.....	1	2	26	.....	.....	1
Soap stamping presses, power.....	5	56	555	.....	2	3
Soap stamping presses, hand or foot.....	1	15	192	.....	1	.....
Packing machines, all kinds.....	10	113	1,253	.....	4	6
Other and indefinite.....	9	447	8,775	.....	5	4
Paints, Varnishes, Inks and Dyes Machines	11	149	2,811	.....	9	2
Agitating mixers and kettles.....	1	6	78	.....	.....	1
Paint and pony mixers.....	1	37	900	.....	1	.....
Grinding machines.....	1	20	400	.....	1	.....
Crushers.....	2	22	333	.....	2	.....
Other and indefinite.....	1	64	1,100	.....	5	1
Rubber, Celluloid and Composition Goods Machines	122	3,603	50,101	.....	67	55
Calenders.....	1	195	4,591	.....	1	.....
Tire making machines.....	1	105	2,074	.....	1	.....
Mixers.....	2	18	283	.....	2	.....
Cutting and slitting machines, and saws.....	18	416	7,393	.....	8	10
Tubing and hose wrapping machines.....	2	45	945	.....	1	1
Hand and foot presses.....	22	244	2,382	.....	7	15
Tubing machines (no fabric).....	1	73	1,098	.....	1	.....
Punching and pressing machines.....	24	1,826	21,359	.....	18	0
Comb cutting machines.....	3	25	289	.....	1	2
Drills and lathes.....	17	186	2,248	.....	10	7
Grinding, washing and milling machines.....	6	32	609	.....	3	3
Vulcanizing machines.....	2	32	470	.....	1	1
Other and indefinite.....	23	406	6,360	.....	13	10
Mining and Ore Refining Machines	2	5	74	.....	.....	2
Miscellaneous Machines	62	555	7,880	.....	21	41
Office machines.....	45	197	2,813	.....	12	33
Spraying machines.....	15	230	3,168	.....	7	6
All other.....	2	119	1,899	.....	2	.....
Other Than Power Working Machines	283	6,380	97,007	1	169	113
Pumps.....	48	992	15,423	.....	38	10
Fans and blowers.....	88	1,431	22,628	.....	49	39
Compressors.....	68	1,479	26,889	.....	38	30
Automatic stokers.....	11	328	5,747	.....	9	2
Machines, not otherwise classified.....	53	684	11,923	.....	26	27
Hand and foot power devices, n. o. c.†.....	13	1,194	9,209	1	7	5
Ice harvesting machines.....	2	272	5,188	.....	2	.....
Total — Machinery, Prime Movers and Power Transmission Apparatus	8,013	204,649	\$2,991,314	(4) 25	4,267	3,721

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

† Not otherwise classified.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING AND CONVEYING APPARATUS						
Elevators, except Construction and Sidewalk.	512	58,764	\$502,696	(1) 39	224	249
Cable breaking.....	13	888	14,592	.....	8	0
Cable unwinding.....	1	1	10	.....	1	1
Caught by cable.....	20	1,281	24,845	.....	15	5
Struck by counterweight.....	1	360	3,757	.....	1	1
Machinery breaking.....	2	182	4,542	.....	2	1
Caught in or struck by machinery.....	30	983	17,092	.....	16	14
Caught between floor and car.....	47	6,898	46,771	.....	23	18
Caught between cars or shaft side and car.....	27	644	8,655	.....	16	11
Caught between gate and car.....	1	13	190	.....	1	1
Caught between car and overhead equipment.....	2	970	11,175	.....	1	1
Struck by car in pit.....	4	1,062	2,469	1	1	2
Struck by car elsewhere.....	1	1	15	.....	1	1
Sudden start or stop of car.....	11	2,150	9,861	2	2	7
Car rising too high.....	3	30	483	.....	1	2
Fall of worker into shaft from floor.....	115	34,297	290,101	(1) 25	40	50
Fall of worker into shaft from car.....	7	2,162	6,591	2	1	4
Fall of worker into or from car.....	11	142	1,656	.....	1	10
Objects falling down shaft from floor.....	3	0	88	.....	1	3
Objects falling down shaft from car.....	2	171	1,707	.....	1	1
Gates and doors.....	171	2,202	32,360	.....	82	89
Fall of car, indefinite.....	19	2,757	13,430	2	5	12
Elevators, other and indefinite.....	21	1,564	12,306	1	12	8
Dumb-Waiters.	149	5,334	45,381	2	58	59
Cable breaking.....	38	2,978	22,556	2	18	18
Caught by cable.....	6	96	861	.....	2	1
Struck by counterweight.....	3	17	223	.....	3	1
Caught in or struck by machinery.....	1	8	98	.....	1	1
Caught between floor and car.....	1	1	18	.....	1	1
Struck by car.....	4	31	436	.....	1	3
Fall of worker into shaft from floor.....	2	39	481	.....	2	2
Objects falling down shaft from floor.....	49	914	10,141	.....	22	27
Objects falling down shaft from car.....	24	816	5,916	.....	11	13
Gates and doors.....	4	160	2,093	.....	1	1
Fall of car, indefinite.....	12	254	2,274	.....	3	9
Dumb-waiters, other and indefinite.....	5	20	284	.....	1	4
Sidewalk Elevators.	41	3,885	37,304	2	24	15
Cable breaking.....	2	1,287	10,111	1	1	1
Cable unwinding.....	1	178	2,870	.....	1	1
Caught by cable.....	1	1	12	.....	1	1
Caught in or struck by machinery.....	4	69	993	.....	3	1
Caught between floor and car.....	4	36	478	.....	1	3
Caught between cars or shaft side and car.....	2	95	1,152	.....	2	1
Struck by car.....	2	1,004	5,749	1	1	1
Fall of worker into shaft from floor.....	3	835	9,752	.....	3	1
Gates and doors.....	8	95	1,324	.....	1	2
Fall of car, indefinite.....	9	234	3,923	.....	4	5
Sidewalk elevators, other and indefinite.....	5	51	940	.....	3	2
Construction Hoists and Elevators.	16	2,860	18,243	2	5	3
Sudden start or stop of car.....	1	24	500	.....	1	1
Fall of worker into shaft from floor.....	3	43	602	.....	1	2
Fall of worker into shaft from car.....	1	408	7,663	.....	1	1
Objects falling down shaft from floor.....	2	1,008	1,480	1	1	1
Objects falling into car from floor.....	1	160	4,000	.....	1	1
Objects falling down shaft from car.....	1	1,000	1,500	1	1	1
Construction hoists, other and indefinite.....	1	217	2,498	.....	1	1
Mine Cages, Skips and Buckets.	1	1	10	1	1	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Locomotive Cranes.	5	205	\$3,351			
Car striking or catching person	1	4	53		3	2
Caught in machinery	1	19	362		1	1
Caught or struck by load, lowering or raising	1	6	83			
Load falling, slipping of hitch	1	154	2,553		1	
Falls from crane or crane track, not in erecting or rigging	1	12	300		1	
Gantry and Traveling Cranes.	223	10,295	124,109	(1)	5	134
Caught or struck by car	19	1,816	18,048	1	8	10
Fall of car	1	39	770			3
Caught or struck by cable or chain	12	298	5,345		7	5
Caught in machinery	1	90	1,941		6	2
Caught or struck by hook or sling	58	1,129	18,201		46	12
Caught or struck by swinging load	30	767	13,155		10	11
Struck by load, lowering or raising	16	567	10,220		11	5
Load falling, breaking of cable or chain	6	114	2,057		3	3
Load falling, slipping of cable	1	103	1,909		3	1
Load falling, slipping of hook	17	1,568	26,720	(1)	1	8
Load falling, slipping of hitch	5	62	1,017		3	2
Load falling, failure of current on magnet	1	2	40		1	
Objects falling from load or bucket	16	273	4,598		7	9
Falls from cranes or crane track, not in erecting or rigging	16	1,357	8,708	1	6	9
Other and indefinite	12	2,103	11,380	2	6	4
Derricks and Jib Cranes.	314	16,776	248,486	(3)	8	157
Struck by derrick or crane	8	217	2,808		4	4
Fall of derrick or crane	9	837	18,056		3	6
Caught or struck by cable or chain	33	713	12,007		22	11
Caught in machinery	22	610	11,597		18	4
Caught or struck by hook or sling	83	2,181	27,642	1	45	37
Boom swinging	20	3,688	48,914	(1)	3	8
Boom or mast breaking	1	3	60			1
Struck by swinging load	32	2,092	44,012	(1)	1	20
Struck by load, lowering or raising	21	385	7,504		10	11
Load falling, slipping of cable or hook	8	267	5,013		3	5
Load falling, breaking of cable or hook	1	1,079	9,988	1	2	1
Load falling, breaking of sling	3	298	7,127		1	2
Load falling, breaking of machinery	1	128	2,880		1	
Load falling, slipping of hitch	2	1	155			2
Load falling, other and indefinite	5	2,057	16,331	(1)	2	4
Objects falling from load	34	1,118	14,750		12	22
Falls from crane load	3	274	5,527		1	2
Falls from derrick, crane cab or track, not in erecting or rigging	7	352	6,247		4	3
Other and indefinite	17	460	7,868		8	9
Blocks and Tackles, Winches, Hand Hoists, etc.	224	7,961	120,533	2	137	85
Objects falling from	41	1,040	16,854		16	25
Caught in or struck by	119	2,965	51,401		86	33
Struck by load	15	563	10,449		8	7
Rope or cable breaking or slipping	30	2,023	26,723	1	17	12
Other and indefinite	19	1,370	15,106	1	10	8
Hay Forks, Derricks and Stackers.	4	27	426		2	2
Unloading Machines.	20	590	8,258		7	11
Air Hoists.	1	87	1,703		3	2
Objects falling from	1	62	1,152		1	
Struck by load	1	12	248		1	
Rope or cable breaking or slipping	2	7	174		1	1
Other and indefinite	1	6	129			1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Concluded						
Overhead Trolleys.....	29	1,441	\$13,828	1	13	15
Objects falling from.....	8	104	1,032	.....	4	4
Caught in or struck by.....	18	1,301	12,076	1	7	8
Struck by load.....	2	2	35	.....	2	2
Other and indefinite.....	3	34	685	.....	2	1
Belt and Chain Conveyors.....	76	1,640	25,250	.....	43	33
Objects falling from.....	11	115	2,131	.....	6	5
Caught in or struck by.....	59	1,378	21,775	.....	35	24
Other and indefinite.....	6	147	1,344	.....	2	4
Screen Conveyors.....	1	47	990	.....	1	.....
Bucket Conveyors.....	48	4,361	42,938	2	28	18
Objects falling from.....	8	135	1,496	.....	2	6
Caught in or struck by.....	35	3,205	24,121	2	23	10
Rope or cable breaking or slipping.....	1	5	150	.....	1	.....
Other and indefinite.....	4	1,015	17,171	.....	2	2
Platform Conveyors and Escalators.....	21	324	5,780	.....	9	12
Charging Machines.....	2	8	135	.....	1	1
Hoists and Skips for Blast Furnaces, Etc.....	9	362	5,237	.....	4	5
Worm or Screw Conveyors.....	3	1,198	8,157	1	1	1
Hoists and Conveyors, Other and Indefinite.....	113	6,755	88,962	3	52	58
Objects falling from.....	10	380	4,664	.....	1	0
Caught in or struck by.....	85	5,866	75,623	3	41	41
Struck by load.....	7	263	4,259	.....	5	2
Rope or cable breaking or slipping.....	4	35	581	.....	2	2
Other and indefinite.....	7	211	3,835	.....	5	0
Total—Hoisting and Conveying Apparatus	1,810	122,921	\$1,301,777	(5) 67	906	837

VEHICLES

Steam and Electric Railways.....	406	33,112	\$327,746	(3)	22	129	255
Train wrecks.....	22	2,223	18,832	2	5	17	.....
Collisions.....	19	2,195	18,261	2	8	15	.....
Derailements.....	8	28	571	.....	1	0	0
Falls from trains.....	178	13,510	122,978	(1)	8	44	128
Getting on or off, in motion.....	1	1,000	1,500	1	.....	.....	.....
Getting on or off, at rest.....	82	1,984	18,704	1	15	60	.....
Riding, sudden start or stop.....	8	394	8,612	.....	8	1	1
Riding, slipping or loss of balance.....	2	75	961	.....	2	0	0
Falls from, loading and indefinite.....	90	10,077	98,211	(1)	6	27	57
Falls on board.....	40	1,460	23,163	(1)	1	7	32
Sudden start or stop.....	10	192	3,200	.....	2	0	0
Slipping or loss of balance.....	18	195	4,118	.....	0	0	18
Other and indefinite.....	12	1,073	15,845	(1)	1	.....	11
Striking against objects while on board.....	1	61	1,408	.....	1	0	0
Caught between cars.....	22	1,437	13,523	1	10	11	.....
While coupling or uncoupling.....	11	266	5,108	.....	7	4	0
Other and indefinite.....	11	1,181	8,416	1	3	7	0

* Figures in parentheses show the number of permanent disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES—Continued						
Steam and Electric Railways—Concluded						
Struck by trains.....	41	12,773	\$116,839	(1) 10	11	20
While switching.....	2	1,029	8,870	1	1	.....
While repairing cars or engines.....	1	1,000	10,575	.....	1	.....
While crossing track.....	4	1,324	19,595	1	1	9
Working or walking on or near track.....	20	5,636	60,604	(1) 5	4	11
Other and indefinite.....	14	3,784	17,195	3	4	7
Other causes.....	102	1,648	31,003	.....	53	49
Handling brakes.....	4	19	306	.....	.....	4
Objects falling from cars, not in loading.....	7	132	2,276	.....	6	1
Objects shifting on load.....	2	31	400	.....	2	.....
All other causes.....	89	1,466	28,021	.....	45	44
Mine and Quarry Cars and Motors.....	50	4,024	53,015	2	22	26
Collisions.....	3	722	11,255	.....	2	1
Derailements.....	2	41	824	.....	.....	2
Falls from cars.....	4	4	73	.....	.....	4
Riding on, contact with rib or side structure.....	3	1,085	9,910	1	1	1
Struck by cars, while coupling or switching.....	4	169	3,557	.....	3	1
Struck by cars, other and indefinite.....	16	1,827	24,130	1	10	5
Lifting or pushing car.....	11	58	1,202	.....	1	5
Caught or struck by rope or chain.....	1	61	1,032	.....	1	.....
Caught by car or load, in dumping or loading.....	5	37	633	.....	2	3
Objects falling from car.....	2	(a)	6	.....	.....	2
Mine and quarry cars, other and indefinite.....	4	20	393	.....	2	2
Plant Trucks, Cars and Motors on Tracks.....	46	2,199	39,075	.....	28	18
Collisions.....	2	44	739	.....	1	1
Derailements.....	3	256	3,167	.....	1	2
Falls from cars.....	5	266	5,618	.....	5	.....
Struck by cars, while coupling or switching.....	9	461	8,305	.....	7	2
Struck by cars, other and indefinite.....	8	237	2,646	.....	3	5
Lifting or pushing car.....	12	155	2,232	.....	4	8
Caught by car or load, in dumping or loading.....	1	290	6,621	.....	1	.....
Getting on or off car.....	2	195	4,754	.....	2	.....
Objects falling from car.....	1	8	200	.....	1	.....
Plant trucks, etc., other and indefinite.....	3	287	4,793	.....	3	.....
Contractor's Cars and Engines.....	2	67	1,002	.....	2	.....
Automobiles and Other Power Vehicles.....	4,895	326,680	3,205,121	(11) 205	1,533	3,157
Automobiles and motor trucks.....	4,612	311,704	3,041,471	(9) 195	1,440	2,977
Collisions, skidding.....	141	11,984	134,945	(1) 7	62	82
Collisions, breaking of parts.....	24	2,171	26,880	1	12	11
Collisions with cars and engines.....	101	13,215	77,394	11	24	66
Collisions with other vehicles and objects.....	893	99,787	911,433	(2) 73	252	558
Overturning, skidding or ditching.....	97	6,712	60,336	5	24	68
Overturning, breaking of parts.....	19	1,534	11,954	1	7	11
Overturning, all other.....	81	13,198	111,272	11	16	54
Struck by or caught between.....	730	81,216	713,764	(4) 55	237	488
Cranking.....	845	8,288	134,912	1	144	200
Engines.....	88	897	14,740	.....	33	85
Breaking of car or part.....	5	18	187	.....	.....	5
Falls from.....	1,084	44,051	519,495	(2) 18	278	788
Objects falling from.....	119	4,370	47,138	2	63	64
Objects shifting on load.....	31	767	11,132	.....	10	21
Mechanical unloading.....	32	2,145	19,401	1	18	13
Wrecking cars.....	13	1,277	13,654	1	7	5
Other and indefinite.....	789	20,126	232,834	.....	273	508

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability					
				Death and permanent total*	Permanent partial	Temporary			
VEHICLES—Concluded									
Automobile and Other Power Vehicles—									
Concluded									
Power, plant and platform trucks.....	82	1,206	\$21,220						
Tractors.....	146	10,015	94,700	(1) 7	54	85			
Railroad hand cars.....	5	17	182		1	1			
Motorcycles.....	50	3,738	47,548	(1) 3	16	31			
Bicycles.....	162	1,676	16,764		27	75			
Airplanes.....	12	8,017	56,092	8		4			
Animal Drawn Vehicles, Except Mine Cars—									
Collisions with cars and engines.....	1	3	51			1			
Collisions with other vehicles.....	1	8	54			1			
Collisions with other objects.....	1	2	17			1			
OVERTURNING.....	19	435	6,014		8	11			
Whiffletrees.....	1	2	35			1			
Falls from vehicles.....	91	5,554	46,997	3	16	72			
Struck by or caught between vehicles.....	23	1,251	21,801	(1) 1	8	14			
Objects falling from vehicles.....	7	20	402		2	5			
Objects shifting on load.....	1	(a)	3			1			
Breaking of vehicle or part.....	4	100	2,473			3			
Mechanical unloading.....	6	80	1,036		5	1			
Sudden start or stop.....	33	316	6,625		7	26			
Animal drawn vehicles, other and indefinite.....	14	201	2,918		7	7			
Animal Drawn Implements, Not Machinery.....	13	362	3,422		3	10			
Water Craft—									
Collisions with vessels.....	15	5,178	49,497	5	4	6			
Collisions with other objects.....	2	39	938		1	1			
Capsizing.....	1	10	150						
Falls from boats or jumping overboard.....	1	1,000	6,841	1					
Falls into hatchway.....	4	3,082	28,454	3	1				
Water craft, other and indefinite.....	3	8	186			3			
All Other Vehicles.....	7	83	958		2	5			
Total—Vehicles.....	5,750	389,368	\$3,841,118	(15) 246	1,804	3,700			

EXPLOSIONS, ELECTRICITY, HEAT, ETC.

Boilers and Steam Pressure Apparatus.....	171	56,878	\$527,202	53	25	93
Steam boilers.....	117	56,518	519,808	53	19	45
Explosion of steam boilers.....	94	56,113	512,004	53	15	36
Escaping steam and hot water.....	17	557	7,071		4	13
Other.....	6	48	783			6
Steam pipes.....	21	175	3,243		2	19
Steam and hot water gauges.....	4	32	783		1	3
Other and indefinite.....	29	153	3,368		3	26
Explosive Substances.....	344	34,757	372,171	(3) 23	103	218
Explosives, transporting and handling.....	2	233	2,012		1	1
Blasting.....	29	11,110	131,670	(1) 7	12	10
Premature shot.....	3	1,033	2,162	1	1	1
Misfire or delayed shot.....	7	2,603	49,089	(1) 1	6	1
Gases.....	2	1,070	7,352	1		1
Other and indefinite.....	17	6,404	73,057	4	6	7

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 22—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
EXPLOSIONS, ETC.—Concluded						
Explosive Substances — Concluded						
Dust, explosion	3	8	\$158	...	...	3
Gas, explosion	105	2,612	30,031	1	26	75
Gasoline and other petroleum products	117	11,013	94,153	8	34	75
Explosions of gasoline in automobiles	53	4,619	53,514	3	19	31
Other explosions of gasoline	64	6,394	40,839	5	15	44
Other and indefinite explosions	85	9,781	114,147	(2) 7	30	51
High Pressure Apparatus	93	1,623	28,163	...	58	35
Bursting of ammonia apparatus	1	(a)	3	...	2	1
Bursting of other high pressure apparatus	38	553	9,150	...	24	14
Bursting, other and indefinite	54	1,070	19,010	...	34	20
Electricity	265	40,235	351,269	35	43	187
Trolley wire	6	56	1,020	...	2	4
Third rail	11	3,048	15,459	3	2	6
Transmission wire	42	19,713	187,040	18	0	15
Switchboard apparatus	4	15	244	...	1	3
Switches, controllers and fuses	48	2,559	12,897	2	6	40
Motors and generators	4	9	168	...	...	4
Transformers	1	1	23	...	...	1
Electrical fixtures	19	2,329	22,683	2	3	14
Electrical appliances	20	2,487	21,295	2	5	13
Short circuits	70	2,646	40,015	1	10	59
Other	40	7,372	50,425	7	5	28
Conflagrations	26	6,106	37,824	(1) 6	4	16
Fires in buildings	24	6,102	37,751	(1) 6	4	14
Other fires	2	4	73	...	...	2
Hot Substances and Flames	1,981	33,859	368,208	(1) 15	253	1,713
Water	458	4,663	45,677	2	24	432
Asphalt, tar, pitch, etc.	122	2,104	27,115	1	22	99
Other hot liquids	448	3,973	33,342	2	30	416
Molten metal	175	1,855	31,087	45	129	
Explosions of molten metal	10	183	3,382	...	5	6
At furnace or cupola	16	108	1,947	...	5	10
Pouring, carrying, etc.	75	838	14,068	...	16	59
Slag and all other	75	726	11,750	...	20	55
Metal, not molten	12	249	2,675	...	2	10
Contact with hot surfaces	100	2,675	24,135	2	10	88
Oxyacetylene and electric cutting and welding	54	782	15,225	...	13	41
Flames, clothing	47	6,946	68,660	(1) 6	10	31
Flames, other	272	3,915	53,244	1	50	221
Hot glass	3	6	136	...	...	3
Ignition of gasoline, oil, etc.	106	4,073	43,417	...	22	84
Hot objects, other and indefinite	184	2,618	23,495	1	24	159
Total — Explosions, Electricity, Heat, Etc.	2,880	173,458	\$1,684,837	(5) 132	486	2,262

HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Poisonous Substances	283	13,166	\$91,550	(2) 11	6	266
Carbon monoxide and dioxide	28	6,230	43,524	(2) 6	3	19
Poison ivy and other plants	135	283	3,409	...	...	135
Illuminating gas	13	2,314	9,911	2	1	10
Hydrocyanic acid and cyanide gases and fumes	2	3	47	...	...	2
Carbon bisulphide	2	12	97	...	...	2
Septic infection	13	27	273	...	...	13
Poisonous substances, other and indefinite	110	4,297	34,289	3	2	85
Corrosive Substances	628	10,888	59,859	2	133	493
Lime	216	3,908	67,649	...	45	171
Cement	63	419	6,271	...	5	58
Acids	121	2,681	33,806	1	37	83
Alkalies	56	2,277	22,475	1	22	73
Other chemicals	132	1,603	29,658	...	24	105

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

(a) Less than .5 of a week.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HARMFUL SUBSTANCES, ETC.—Concluded						
Irritant but not Corrosive Substances.....	14	240	\$2,433	.....	1	13
Occupational Diseases From§.....	1,441	65,582	493,949	(26) 42	45	1,354
Anthrax.....	3	10	137	.....	3	
Lead poisoning.....	58	8,814	105,188	(1) 5	4	15
Zinc poisoning.....	1	1	7	.....	1	
Mercury.....	4	618	5,234	.....	4	
Arsenic.....	1	(a)	3	.....	1	
Wood alcohol.....	1	2	26	.....	1	
Nitro and amido derivatives of benzol.....	70	4,325	46,890	2	2	66
Carbon bisulphide.....	5	50	942	.....	5	
Nitrous fumes.....	1	1	12	.....	1	
Nickel carbonyl.....	2	4	35	.....	2	
Dope (laquers).....	6	2,028	17,168	2	4	
Formaldehyde.....	2	41	299	.....	2	
Chromic acid (chrome ulcer).....	10	1,252	7,352	.....	1	9
Handling tar, pitch, etc.....	5	1,026	2,034	1	4	
Compressed air.....	13	1,035	31,651	(1) 1	.....	12
Methyl chloride.....	2	9	176	.....	2	
Carbon monoxide.....	10	85	1,073	.....	10	
Sulphuric, hydrochloric and hydrofluoric acid.....	5	258	2,687	.....	5	
Fumes from petroleum products (respiratory and gastro-intestinal disorders).....	5	38	780	.....	.....	5
Continuous friction, rubbing, etc. (blisters and abrasions).....	234	1,407	22,450	.....	21	213
Continuous vibration, pressure, etc. (bursitis or synovitis).....	107	821	11,197	.....	7	100
Direct contact with harmful alkalies, acids, etc. (dermatitis).....	701	10,375	122,554	.....	3	998
Silica and dust.....	45	29,886	55,674	(23) 29	.....	16
All other causes.....	150	3,496	60,380	(1) 1	7	142
Total—Harmful Substances and Occupational Activity.....	2,366	89,876	\$747,791	(28) 55	185	2,126

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS

Falls on Stairs and Steps.....	2,863	82,213	\$891,649	(1) 15	175	2,218
Due to handling objects.....	464	14,958	173,749	2	89	373
Slipping on wet steps.....	109	3,124	40,812	.....	28	81
Slipping on icy steps.....	46	1,294	16,819	.....	9	37
Slipping or loss of balance (n. o. c.)‡.....	1,177	26,791	301,484	5	237	935
Stumbling, misstepping, heel catching, etc.....	543	10,944	138,250	1	141	401
Falling over loose objects on stairs.....	82	2,401	24,388	.....	19	63
Knocked down stairs.....	2	13	285	.....	2	
Defective or broken stairs.....	78	3,745	43,921	(1) 2	17	59
Other and indefinite.....	362	18,943	151,032	9	86	267
Falls from Ladders.....	1,801	98,206	1,275,488	(4) 25	624	1,152
Breaking of ladder or parts.....	180	9,593	123,263	2	63	115
Slipping, twisting or fall of ladder.....	652	33,235	483,213	12	203	387
Knocked off ladder.....	27	3,522	27,920	2	12	13
Falls from ladders while handling objects.....	82	5,025	72,903	(1) 2	26	54
Slipping of foot or loss of balance.....	521	25,693	334,268	(1) 8	153	360
Falling in getting on or off.....	59	1,286	21,290	.....	14	45
Slipping or breaking of tool.....	19	1,909	22,488	.....	11	8
Other and indefinite.....	261	17,943	190,143	(2) 9	82	170
Falls from Scaffolds and Stagings.....	765	82,553	1,016,616	(4) 37	256	472
Breaking or slipping of scaffold.....	286	33,007	439,631	(2) 12	100	174
Breaking of tackle or support.....	11	780	15,504	.....	7	4

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

§ See also "Poisonous Substances" and "Corrosive Substance".

‡ Not otherwise classified.

(a) Less than .5 of a week.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability					
				Death and permanent total*	Permanent partial	Temporary			
FALLS OF WORKERS, ETC.—Concluded									
Falls from Scaffolds and Stagings—Concluded									
Tilting of scaffold.....	6	313	\$3,752	.....	2	4		
Tilting or falling of loose plank.....	45	2,430	33,582	.....	19	26		
Defective or broken surfaces.....	13	374	5,761	.....	3	10		
Falls from scaffolds while handling objects.....	38	5,496	55,849	3	13	22			
Slipping or loss of balance.....	129	12,260	155,463	(1) 5	42	82			
Falling over loose objects on scaffold.....	5	49	1,056	.....	1	4		
Knocked off scaffold.....	15	2,568	23,282	2	4	9			
Falling in getting on or off.....	68	3,117	40,160	1	18	49			
Slipping or breaking of tool.....	7	1,102	3,425	1	2	4			
Other and indefinite.....	142	21,057	239,151	(1) 13	45	84			
Falls from Other Elevations.....	2,020	146,962	1,628,734	(3) 68	559	1,393			
Benches, boxes, chairs and tables.....	579	13,387	197,190	1	127	451			
Structures not in erection or demolition.....	29	5,703	61,370	3	10	16			
Cranes, derricks, elevators and hoists in erection and rigging.....	1	84	670	.....	.....	1	
Elevated bins, pockets and tanks.....	10	1,126	19,431	.....	3	7		
Structures in erection or demolition.....	186	30,694	343,640	(1) 19	65	102			
Temporary floors.....	2	50	934	.....	1	1		
Boilers, engines and machines.....	97	6,710	71,350	3	24	70			
Files of material.....	133	5,798	64,095	1	44	88			
Poles, trees and towers.....	73	7,824	69,386	4	24	45			
Roofs.....	110	15,042	159,534	(1) 9	38	63			
Runways, balconies and platforms.....	463	22,844	306,624	6	119	338			
Loading platforms.....	49	1,884	14,606	1	10	38			
Gangplanks.....	11	1,923	18,847	1	3	7			
Tramways and trestles (including railroads).....	14	1,283	5,876	1	6	7			
Window and wall openings.....	59	18,696	146,967	(1) 14	20	25			
All other elevations.....	204	13,906	148,214	5	65	134			
Falls into Excavations, Pits and Openings.....	527	37,763	364,029	21	128	378			
Bins, vats, etc., with hot or corrosive substances.....	28	1,239	6,707	1	2	25			
Bins, pits and vats, other.....	135	10,421	83,636	7	38	90			
Floor openings, except elevator shafts.....	186	13,662	147,387	0	47	133			
Manholes (street, sidewalk, etc.).....	10	128	2,078	.....	1	0		
Excavations, ditches and other openings.....	168	12,313	124,221	7	40	121			
Falls on Level Surfaces.....	9,803	229,122	3,028,201	(9) 44	2,159	7,600			
Slipping of foot.....	3,429	84,190	1,151,478	(6) 18	827	2,584			
Falls due to defective surfaces.....	258	4,375	54,764	.....	42	216		
Slipping or breaking of tools or work.....	304	11,328	129,735	(1) 2	52	250			
Stumbling over fixed objects.....	107	2,482	37,102	.....	32	75		
Falls when handling bulky objects.....	2,624	52,456	689,745	(1) 9	376	2,239			
Stumbling over loose objects.....	1,331	35,191	449,529	5	354	972			
Falls with injuries due to objects in hands.....	774	18,577	216,026	(1) 8	231	535			
Injury or fall due to foot catching.....	140	4,098	65,548	.....	48	92		
Other and indefinite.....	836	16,425	234,274	2	197	637			
Other and Indefinite Falls of Workers.....	116	3,303	33,907	2	16	98			
Total—Falls of Workers.....	17,895	680,122	\$8,238,624	(21) 216	4,368	13,311			

STEPPING ON AND STRIKING OBJECTS

Stepping on Objects.....	575	4,531	\$45,020	2	28	545
Nails.....	482	2,939	35,608	1	18	463
Sharp objects, other and indefinite.....	94	1,592	9,412	1	10	83

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability					
				Death and permanent total*	Permanent partial	Temporary			
STEPPING ON AND STRIKING OBJECTS									
— Concluded									
Striking Objects.....	3,404	46,522	\$605,575	8	774	2,622			
Nails.....	169	1,460	20,921	.....	23	146		
Sharp projections from walls, etc.....	355	3,633	40,710	1	54	270			
Fixed objects.....	1,565	23,048	306,117	4	397	1,164			
Fellow worker.....	95	2,361	27,887	.....	23	72		
Loose objects, and other or indefinite.....	1,179	14,463	193,669	2	239	618			
Struck by object stepped on.....	41	1,557	16,271	1	8	32			
Total — Stepping On and Striking Objects	3,980	51,053	\$650,595	16	862	3,168			
FALLING OBJECTS, NOT IN HANDLING									
Collapses.....	149	17,733	\$191,914	(2) 10	48	91			
Buildings and walls.....	37	10,180	120,410	(2) 7	13	17			
Piles.....	102	7,140	66,618	3	34	65			
Scaffolds and stagings.....	7	327	4,065	.....	1	6		
Other and indefinite.....	3	80	821	.....	.....	3	
Objects Falling from Elevations.....	1,298	40,078	466,603	(1) 13	495	780			
Structures not in erection or demolition.....	13	1,476	11,952	.....	3	10		
Bins and pockets.....	3	7	67	.....	.....	3	
Trestles and tramways.....	1	74	765	.....	.....	1	
Runways, balconies and platforms.....	14	113	2,369	.....	7	7		
Racks and shelves.....	105	1,277	15,481	.....	37	68		
Floor openings, except elevator shafts.....	13	111	2,015	.....	3	10		
Chutes, conveyors, slides and screens.....	40	489	7,468	.....	13	27		
Machines and work benches.....	333	5,154	75,790	1	146	186			
Piles.....	154	3,197	35,708	1	62	91			
Structures in erection or demolition.....	154	11,591	111,838	6	43	105			
Scaffolds and stagings.....	68	2,278	35,184	.....	32	36		
Other and indefinite.....	400	14,311	167,966	(1) 5	149	246			
Trees Falling.....	84	8,274	40,841	(1) 7	13	58			
Fall of trees in felling.....	44	5,504	28,488	(1) 5	6	33			
Trees lodged in felling.....	5	1,290	4,383	1	3	2			
Kick-backs of trees in felling.....	5	46	590	.....	2	4		
Spring-poles.....	1	3	24	.....	.....	1	
Limbs, not in felling trees.....	23	424	4,132	.....	8	15		
Trees, not in felling.....	4	1,007	3,224	1	.....	3		
Objects Tipping Over.....	341	7,419	121,502	(1) 2	139	200			
Objects Falling Into Excavations.....	64	1,666	19,037	.....	17	47		
Ditches and trenches.....	44	1,148	13,024	.....	14	30		
Other and indefinite.....	20	518	6,013	.....	3	17		
Cave-ins.....	148	20,364	193,329	(3) 14	36	98			
Ditches and trenches.....	80	11,418	110,485	(2) 8	17	55			
Tunnels.....	1	7	88	.....	.....	1	
Sand banks and all other cave-ins.....	67	8,939	82,756	(1) 6	19	42			
Falling Objects in Mines, Quarries and Tunnels									
Coal, rock and ore at working face.....	133	10,779	122,061	(1) 7	42	84			
Coal, rock and ore from pillars and ribs.....	48	1,866	22,879	1	14	33			
Coal, rock and ore in chutes, runways, etc.....	4	61	534	.....	1	3		
Roof in working places.....	29	2,641	29,422	2	11	16			
Timbers.....	16	2,814	23,404	2	6	8			
From surface into shaft.....	25	3,261	43,075	(1) 2	8	15			
Other and indefinite.....	2	6	146	.....	2	2		
	9	130	2,601	.....	2	7		

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLING OBJECTS, ETC.—Concluded						
Other Falling and Shifting Objects.....	311	10,982	\$127,636	(1)	5	108
Poles.....	3	1,011	1,885		1	2
Objects falling due to wind, etc.....	26	1,679	34,463		9	17
Other falling and shifting objects.....	282	8,292	91,288	(1)	4	99
Falling Objects, Handling Not Determined.....	834	13,125	182,904		3	354
Total—Falling Objects, Not in Handling.....	3,362	130,420	\$1,465,827	(10)	61	1,258
HANDLING OBJECTS						
Heavy and Bulky Objects.....	18,210	317,741	\$4,206,506	(12)	76	3,867
Objects dropped while handling, carrying, etc.....	2,758	39,775	627,749	(2)	4	1,282
Objects handled by fellow worker.....	491	8,413	132,771	(1)	2	211
Objects dropped or falling while loading.....	1,153	18,255	274,215	(1)	3	488
Objects dropped or falling while piling.....	220	3,571	55,207			94
Caught between object handled and other object.....	1,494	18,082	316,414			801
Strain in handling.....	10,219	190,291	2,276,568	(6)	56	241
Objects slipping, breaking and other or indefinite.....	1,875	39,354	523,582	(2)	11	750
Sharp and Rough Objects.....	4,634	56,802	802,887	10	1,232	3,392
Glass.....	883	10,534	141,365		2	265
Nails.....	313	6,339	62,825		3	77
Wire and metal straps.....	461	4,784	82,492			323
Sheet metal and sheet metal objects.....	559	7,072	117,467		1	155
Wood splinters.....	479	7,281	107,176		1	117
Metal splinters.....	397	4,623	64,590		1	113
Castings.....	8	173	3,054			8
Bones.....	149	2,143	24,799		1	21
In hands of fellow worker.....	15	146	1,776			7
Pins and sharp objects, other and indefinite.....	1,370	13,727	197,343		1	336
Hand Trucks, Carts and Wheelbarrows.....	1,142	14,391	194,026	1	406	735
Struck by truck in handling.....	332	3,068	43,535		102	230
Struck by truck handled by fellow worker.....	99	2,270	28,350		23	76
Caught between truck and other object.....	133	1,434	22,425		54	79
Objects falling from truck, not in handling.....	183	3,092	35,880		77	105
Overturning.....	111	2,010	26,016		32	79
Running over hands or feet.....	219	1,952	29,977		104	115
Other and indefinite.....	65	565	7,843		14	51
Continued Wear from Handling and Friction Burns.....	85	535	10,804		14	71
Handling Objects, Not Heavy, Bulky or Sharp.....	41	393	4,893		16	33
Total—Handling Objects.....	24,114	390,013	\$5,219,116	(12)	87	5,529
HAND TOOLS						
In Hands of Injured Worker.....	4,784	68,806	\$1,034,369	(1)	8	1,810
Glancing and slipping of tool in use.....	3,924	46,124	665,498		7	1,456
Breaking and coming apart of tool.....	102	2,680	36,380	(1)	1	40
Flying pieces set in motion by tool.....	653	18,733	310,099			283
<i>Nails and spikes.....</i>	<i>46</i>	<i>2,057</i>	<i>84,281</i>			<i>36</i>
<i>Metal chips.....</i>	<i>281</i>	<i>8,435</i>	<i>150,610</i>			<i>124</i>
<i>Stone.....</i>	<i>120</i>	<i>2,936</i>	<i>47,556</i>			<i>44</i>
<i>Other and indefinite.....</i>	<i>207</i>	<i>5,305</i>	<i>77,852</i>			<i>89</i>
Tools in hands of injured worker, other and indefinite.....	105	1,260	22,392		31	74

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 22—(Concluded)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1938

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HAND TOOLS—Concluded						
In Hands of Fellow Worker.....	345	6,462	\$105,923	(1) 1	184	163
Glancing and slipping of tool in use.....	287	4,666	75,968	(1) 1	146	140
Breaking and coming apart of tool.....	10	447	4,144	.....	6	4
Flying pieces set in motion by tool.....	47	1,338	25,692	.....	32	15
<i>Nails and spikes</i>	4	20	404	.....	1	3
<i>Metal chips</i>	24	895	17,141	.....	17	7
<i>Stone</i>	8	139	2,071	.....	7	1
<i>Other and indefinite</i>	11	284	6,076	.....	7	4
Tools in hands of fellow worker, other and indefinite.....	4	11	119	.....	.....	4
Total—Hand Tools.....	5,132	75,268	\$1,140,292	(2) 9	1,994	3,129
ANIMALS						
Draft Animals.....	235	7,368	\$110,911	1	11	153
Kicked and stepped on by animals.....	96	2,658	44,136	.....	34	62
Bites.....	4	10	189	.....	.....	4
Runaways.....	45	1,479	25,553	.....	19	26
Other and indefinite.....	90	3,221	41,033	1	28	61
Other Animals.....	151	2,274	32,543	.....	37	114
Total—Animals.....	386	9,642	\$143,454	1	118	267
MISCELLANEOUS						
Miscellaneous.....	3,017	103,800	\$1,247,981	(9) 50	999	1,968
Flying particles and objects, not from machines and hand tools.....	443	9,839	160,307	(2) 2	135	306
Doors, windows, covers and gates.....	984	17,288	240,624	(1) 3	422	558
Drenching, not drowning.....	14	2,286	23,615	2	1	11
Heat prostration and sunstroke.....	50	11,522	104,481	(1) 11	2	37
Cold, including frost bite.....	59	1,899	15,730	(1) 1	11	47
Lightning.....	11	1,081	6,181	1	1	9
Violence of fellow worker.....	72	3,566	30,862	2	44	26
Violence, all other.....	521	23,507	230,272	(1) 11	232	278
Wrestling, sparring, chasing and horseplay.....	27	566	11,886	.....	5	22
Compressed air, not explosions.....	89	5,671	91,734	(1) 3	41	45
Cyclones, floods, earthquakes, etc.....	3	8	176	.....	.....	3
Miscellaneous accidents, other.....	208	10,734	152,120	(2) 7	48	153
Injuries due to position assumed.....	514	10,311	137,641	1	52	461
Swallowing objects.....	6	17	251	.....	.....	6
Accidental discharge of firearms.....	16	5,525	42,101	5	5	5
Total—Miscellaneous.....	3,017	103,800	\$1,247,981	(9) 50	999	1,968
INDEFINITE HISTORY OF ACCIDENT						
Indefinite History of Accident.....	165	4,320	\$47,077	3	23	139
Grand Total—All Accidents.....	78,870	2,424,910	\$28,719,803	(111) 962	22,739	55,169

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS						
Prime Movers.....	150	3,456	\$54,895	101	11	1
Steam engines.....	3	82	1,988	2	1	1
Gasoline engines.....	105	2,154	35,775	72	33	
Electric motors and dynamos.....	39	1,207	16,842	26	13	
Compressed air motors.....	1	1	13		1	
Prime movers, other and indefinite.....	2	12	187	1	1	
Power Transmission Apparatus.....	262	10,659	145,023	177	82	
Shafts.....	16	2,392	20,792	2	5	
Shaft collars and couplings.....	1	1	101		1	
Belts and pulleys.....	152	4,554	76,434	102	50	
<i>Shifting</i>	31	439	6,984	21	10	
<i>Caught by belt</i>	49	1,080	17,738	29	20	
<i>Caught between belt and pulley</i>	32	1,137	18,451	28	4	
<i>Contact with running belt</i>	2	7	102	1	1	
<i>Belt hooks and fasteners</i>	9	308	5,888	4	5	
<i>Struck by breaking belt</i>	7	547	9,644	5	2	
<i>Other and indefinite</i>	22	1,086	17,649	14	8	
Chains and sprockets.....	21	628	11,185	15	6	
Ropes, cables and drums.....	10	461	7,326	11	4	
Cogs, cams, gears and friction wheels.....	55	2,520	27,768	39	15	
Clutches.....	5	81	1,056	4	1	
Ratchets.....	2	15	361	2		
POWER WORKING MACHINES						
Stone, Clay and Glass Products Machines.....	37	1,548	21,937	24	13	
Brick and tile making machines.....	8	510	5,625	7	1	
Cement making machines.....	1	2	35		1	
Glass making machines.....	10	87	1,474	4	6	
<i>Polishing wheels</i>	2	5	107		2	
<i>Surface grinding and cutting machines</i>	4	38	495	3	1	
<i>Presses</i>	1	1	5		1	
<i>Bottle making machines</i>	1	36	727	1		
<i>Other and indefinite</i>	2	7	140		2	
Pottery making machines.....	2	6	90	1	1	
Emery and carbondum making machines.....	4	322	6,542	4		
Stone and ore crushers and grinders.....	2	479	5,302	1	1	
Stone working machines.....	8	123	2,530	5	3	
Coal crushers.....	2	19	339	2		
Metal Working Machines.....	1,990	51,635	748,786	1,223	758	
Abrasives wheels.....	234	5,233	90,200	(1) 1	139	94
Bending and straightening machines.....	50	1,343	22,411		29	21
Pipe cutting and threading machines.....	18	111	1,903		8	10
Boring machines.....	14	360	7,554		10	4
Drills.....	90	2,119	25,453	1	53	36
Milling and gear cutting machines.....	47	1,044	16,926		36	11
<i>Broaching machines</i>	1	13	187		1	
<i>Keyseaters</i>	1	29	521		1	
<i>Milling machines</i>	41	962	15,612		30	11
<i>Slotters</i>	3	28	301		3	
<i>Other and indefinite</i>	1	12	305		1	
Hammers and forging machines.....	30	587	8,175		16	14
<i>Drop hammers</i>	12	272	3,552		7	6
<i>Forging hammers</i>	7	42	561		1	6
<i>Scrap breakers</i>	1	11	150		1	
<i>Swaging machines</i>	1	26	261		1	
<i>Other and indefinite</i>	9	296	8,651		6	3
Lathes and automatic screw machines.....	124	2,395	45,728		84	40
<i>Lathes</i>	107	1,842	34,620		71	36
<i>Screw machines</i>	17	553	11,108		13	4

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensa- tion†	Kind of disability		
				Death and per- manent total*	Per- manent partial	Tem- porary
MACHINERY, ETC.—Continued						
Metal Working Machines—Concluded						
Cleaning mills, tumblers, etc.	3	43	\$521	2	1	1
Molding machines	22	1,782	18,828	15	1	3
Planers and shapers	19	763	14,978	16	3	1
Polishers and buffers	135	3,247	54,533	85	50	5
Portable power tools	237	5,554	87,208	131	105	1
Power presses	581	16,859	229,247	391	189	1
Arbor presses	5	88	1,065	2	1	1
Forging presses	4	124	1,861	3	1	1
Draw presses	2	151	2,494	2	1	1
Forming presses	6	266	3,664	6	1	1
Flanging presses	7	86	930	6	1	1
Embossing presses	3	8	84	1	1	1
Punch, stamping and trimming presses	259	8,575	115,163	181	77	1
Punch and eyeletting machines	19	71	977	5	14	1
Punches and riveting machines	20	144	1,854	8	12	1
Other and indefinite	256	7,346	100,555	178	78	1
Hand and foot presses	65	488	5,192	18	47	1
Rolling and blooming mills	13	1,170	11,670	5	7	1
Metal saws	55	1,445	19,827	31	23	1
Band saws	3	15	209	1	2	1
Circular saws	40	1,372	18,648	25	14	1
Hack saws	3	5	60	1	3	1
Other and indefinite	9	53	910	5	4	1
Metal shears and cutting machines	123	4,027	37,361	74	47	1
Welding and heat cutting machines	13	137	2,119	9	4	1
Wire working machines	36	818	13,232	18	18	1
Cable making machines	11	44	648	2	1	1
Wire and tube drawing machines	7	171	2,555	5	2	1
Hydraulic, pneumatic and screw presses	4	93	1,734	3	1	1
Automatic can making machines	2	142	2,125	2	1	1
Metal working machines, other and indefinite	65	1,660	28,658	41	24	1
Wood Working Machines	941	26,773	447,353	606	334	
Boring machines and drills	19	402	7,801	12	7	1
Cork working machines	7	261	4,333	4	3	1
Lathes	11	80	1,030	5	6	1
Mortising machines	6	104	1,578	3	3	1
Nailing machines	7	52	450	3	4	1
Tenoning, planing and molding machines	186	4,154	69,394	127	50	1
Edgers	2	16	163	1	1	1
Jointers	91	1,801	30,419	68	29	1
Matchers, rabbetting	2	15	161	1	1	1
Molders	13	164	2,918	10	3	1
Planers	64	1,483	24,724	45	19	1
Stickers	4	304	5,806	2	2	1
Tenoning and gaining machines	1	30	387	1	1	1
Rossers	1	1	12	1	1	1
Other and indefinite	8	360	4,804	5	5	1
Presses (woodworking)	8	58	514	2	1	1
Sanding machines	21	333	4,059	13	8	1
Band, scroll and jig saws	31	674	10,618	19	12	1
Circular, universal and table saws	536	18,166	305,889	364	171	1
Circular and table saws	218	8,684	139,003	158	59	1
Circular saws (lumber mill)	1	6	56	1	1	1
Lath bolter	1	46	690	1	1	1
Swing saws	3	17	157	1	2	1
Dado saws	13	576	7,184	7	6	1
Rabbetting saws	1	12	243	1	1	1
Other and indefinite	299	8,886	158,550	196	103	1

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanently partial	Temporary
MACHINERY, ETC. — Continued						
Wood Working Machines — Concluded						
Shapers.....	68	1,929	\$34,023	.....	34	34
<i>Shapers</i>	29	771	12,433	.....	17	12
<i>Variety machines and freezers</i>	15	383	7,198	.....	7	8
<i>Other and indefinite</i>	24	775	14,452	.....	10	14
Veneering machines.....	11	184	1,625	.....	5	6
Brush and broom making machines.....	10	89	850	.....	4	6
Wood working machines, other and indefinite.....	20	307	5,189	.....	11	9
Leather Working Machines — Tanneries	54	2,580	29,770	1	2	25
Buffing drums.....	3	130	2,014	.....	2	1
Other drums and paddle vats.....	6	415	7,240	.....	4	2
Fur working machines.....	8	170	2,304	.....	4	4
Fleshing, skinning and shaving machines.....	9	430	6,708	.....	8	1
Rolling, felting and glasing jacks.....	7	12	201	.....	1	6
Pressing and baling machines.....	1	3	57	.....	.....	1
Hair washing and drying machines.....	1	8	123	.....	.....	1
Setting up and setting out machines.....	5	170	2,091	.....	4	1
Splitting machines.....	2	111	1,752	.....	1	1
Unhairing machines.....	2	72	1,211	.....	2	.....
Extractors.....	1	1,000	5,265	1	.....	.....
Other and indefinite.....	9	59	804	.....	2	7
Leather Products Machines	254	3,191	46,376	.....	58	206
Cutting, skiving and slitting machines.....	59	302	4,144	.....	14	45
Punching and pressing machines.....	66	1,308	21,124	.....	20	46
Sewing machines.....	40	224	2,881	.....	5	34
Buffing machines.....	6	35	367	.....	2	4
Other shoe making machines.....	82	1,051	13,632	.....	15	67
Other and indefinite.....	11	271	4,228	.....	1	10
Paper Making Machines	128	3,541	47,864	1	67	60
Barkers, chippers, splitters and grinders.....	9	173	2,090	.....	5	4
<i>Chippers</i>	1	1	100	.....	1	.....
<i>Grinders</i>	3	16	156	.....	1	2
<i>Splitters</i>	2	6	60	.....	1	1
<i>Other and indefinite</i>	3	143	1,774	.....	2	1
Beaters, including rag washers.....	11	177	2,690	.....	4	7
Screens.....	1	13	148	.....	1	.....
Paper machines.....	46	1,163	20,635	.....	23	23
<i>Dryers</i>	11	119	2,238	.....	5	6
<i>Calenders</i>	14	409	6,363	.....	5	9
<i>Doctors</i>	2	18	384	.....	2	.....
<i>Other and indefinite</i>	19	617	11,650	.....	11	2
Rolls and winders.....	28	513	6,562	.....	14	14
Cutters and slitters.....	21	1,350	13,694	1	14	6
Paper coating machines.....	3	62	522	.....	2	1
Paper making machines, other and indefinite.....	9	100	1,523	.....	4	5
Paper Products Machines	307	9,275	122,028	2	163	136
Paper cup machines.....	5	197	4,466	.....	2	3
Tube machines.....	2	18	191	.....	1	1
Automatic box making machines.....	36	287	3,260	.....	15	21
Covering machines.....	23	193	2,397	.....	11	12
Cutting and punching machines.....	100	4,636	69,907	1	58	41
<i>Die cutters</i>	22	799	13,738	.....	16	6
<i>Guillotines</i>	2	149	3,087	.....	2	.....
<i>Hand paper cutters</i>	9	290	2,694	.....	2	7
<i>Perforators</i>	4	78	934	.....	2	1
<i>Punches</i>	6	131	1,401	.....	2	4

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC. — Continued						
Paper Products Machines — Concluded						
Rotary cutters.....	1	2	13	.....	.....	1
Saws.....	4	81	1,248	.....	4	.....
Shears.....	1	5	78	.....	1	.....
Other and indefinite.....	51	3,101	46,734	1	29	21
Paper balers.....	37	1,951	12,591	1	18	18
Doming and ending machines.....	11	491	7,040	.....	9	2
Doming machines.....	4	140	1,765	.....	4	.....
Corrugating machines.....	2	231	8,961	.....	1	1
Ending machines.....	5	120	1,814	.....	4	1
Corner staying machines.....	7	45	492	.....	4	3
Bag and envelope making machines.....	25	397	5,921	.....	15	10
Paper finishing machines.....	1	3	26	.....	1	.....
Embossing rolls and calenders.....	5	67	1,487	.....	3	2
Creasing and folding machines.....	10	128	1,902	.....	6	1
Embossing presses.....	13	305	4,817	.....	9	1
Paper products machines, other and indefinite.....	32	557	7,531	.....	18	14
Printing and Bookbinding Machines	294	6,096	105,802	.....	158	136
Composing machines.....	33	318	6,835	.....	18	15
Linotypes.....	30	296	6,280	.....	16	14
Other and indefinite.....	3	22	555	.....	2	1
Printing presses.....	190	4,516	81,891	.....	107	83
Web newspaper presses.....	20	174	4,051	.....	8	12
Flat bed, cylinder or book presses.....	1	10	256	.....	1	.....
Job platen presses.....	3	47	418	.....	3	.....
Automatic presses.....	35	1,062	17,455	.....	20	15
Other and indefinite.....	131	3,223	59,711	.....	75	56
Binding presses.....	1	7	85	.....	1	.....
Sewing and stitching machines.....	41	355	4,023	.....	16	25
Wire stitchers.....	10	68	884	.....	3	7
Wire staplers.....	8	37	859	.....	1	7
Other and indefinite.....	23	250	2,830	.....	12	11
Other printing machines.....	11	360	7,531	.....	7	4
Other bookbinding machines.....	18	540	5,437	.....	0	9
Textile Machines	996	15,743	199,201	(1) 3	320	573
Dryers.....	3	178	1,592	.....	2	1
Opening and cleaning machines.....	19	1,944	29,243	.....	13	6
Carding and combing machines.....	48	2,897	30,135	.....	30	17
Cards.....	22	1,516	9,025	1	14	7
Combs.....	4	39	335	.....	1	3
Garnets.....	21	1,328	20,657	.....	14	7
Other and indefinite.....	1	14	118	.....	1	.....
Spinning machines.....	22	1,314	11,050	(1) 1	12	9
Jacks and mules.....	8	1,145	9,398	(1) 1	5	2
Spinning frames.....	3	62	571	.....	1	1
Drawing frames.....	4	47	390	.....	3	1
Other and indefinite.....	7	62	691	.....	2	5
Weaving machines.....	47	1,591	14,143	.....	14	32
Looms.....	37	1,482	12,910	1	10	10
Warpers.....	3	11	128	.....	1	1
Other and indefinite.....	7	98	1,105	.....	4	3
Dyeing, finishing and printing machines.....	38	1,133	15,248	.....	21	17
Braiding, knitting and lace making machines.....	34	426	5,803	.....	0	25
Rope making machines.....	7	168	1,727	.....	4	3

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Continued						
Textile Machines —Concluded						
Sewing machines.....	445	2,485	\$30,123	.....	76	349
Cloth cutting and stamping machines.....	261	2,236	42,523	.....	106	155
Hat making machines.....	13	167	2,919	.....	5	7
Coating and inlaying machines.....	3	114	1,446	.....	1	2
Winders, doublers and quillers.....	31	360	4,486	.....	15	16
Textile machines, other and indefinite.....	25	730	8,763	.....	11	14
Laundry Machines	272	8,856	106,423	(1) 2	111	129
Centrifugal extractors.....	6	83	1,511	.....	3	3
Carpet cleaners and tumblers.....	10	113	1,245	.....	1	9
Ironing machines.....	184	6,002	70,383	1	70	113
Body irons.....	112	3,062	35,533	1	38	73
Mangles.....	67	2,848	33,322	.....	29	35
Other and indefinite.....	5	102	1,528	.....	3	2
Washing machines.....	35	972	14,784	.....	20	15
Wringers and other or indefinite.....	37	1,686	18,500	(1) 1	17	19
Food Products Machines	745	17,733	268,040	1	333	361
Cleaning, preparing and sorting machines.....	9	144	1,320	.....	4	5
Milling and grinding machines.....	16	640	9,742	.....	12	4
Mixing machines and kettles.....	55	2,333	38,312	.....	30	25
Dough mixers.....	39	1,597	26,978	.....	20	19
Other mixing machines and kettles.....	16	736	11,334	.....	10	6
Cookers and ovens.....	1	6	83	.....	1	.....
Shaping and forming machines.....	54	4,404	61,547	.....	52	31
Cutting and chopping machines.....	382	6,137	90,902	.....	176	208
Candy making machines.....	15	128	1,938	.....	8	7
Ice crushers and cutting machines.....	36	1,590	23,916	.....	19	17
Packing machines, all kinds.....	39	448	7,111	.....	20	19
Bottling machines.....	38	693	10,783	.....	22	16
Tobacco working machines.....	1	4	40	.....	1	1
Centrifugal extractors and separators.....	1	114	2,847	.....	1	.....
Dish washing and cleaning machines.....	28	210	3,440	.....	10	18
Roasting and drying machines.....	3	252	4,053	.....	3	.....
Food products machines, other and indefinite.....	36	630	11,997	.....	24	12
Farm Machines	41	2,335	25,740	1	20	21
Feed and ensilage cutting machines.....	3	313	5,204	.....	8	.....
Harvesters and mowers.....	18	1,256	13,838	1	10	7
Threshers.....	4	81	665	.....	1	3
Hay presses and balers.....	1	15	175	.....	1	.....
Plows, harrows and other farm machines.....	16	670	5,858	.....	5	11
Construction Machines	107	17,818	233,189	(1) 5	221	181
Concrete mixers.....	81	2,221	32,311	.....	54	27
Rock drills.....	80	1,612	33,422	.....	45	35
Pile drivers.....	18	2,763	25,363	2	10	6
Road rollers and graders.....	51	1,214	16,706	.....	19	32
Well drills.....	13	1,367	25,447	(1) 1	9	3
Trench and ditch digging machines.....	3	44	567	.....	2	1
Power shovels and dredging machines.....	81	5,958	69,374	1	46	34
Construction machines, other and indefinite.....	80	2,639	29,999	1	36	43
Chemical Products Machines	44	708	11,468	.....	27	17
Grinding machines.....	1	7	136	.....	1	.....
Agitating mixers, vats and kettles.....	5	141	2,897	.....	5	.....
Machines of recovery, such as screens, etc.....	2	22	502	.....	2	.....
Crushers.....	2	14	203	.....	1	.....
Centrifugal extractors.....	1	49	857	.....	1	.....
Soap stamping presses, power.....	7	115	1,306	.....	4	3
Soap stamping presses, hand or foot.....	1	16	165	.....	1	.....
Soap grinders.....	1	6	88	.....	1	.....
Packing machines, all kinds.....	15	251	3,878	.....	7	8
Tablet presses and pill making machines.....	1	15	183	.....	1	.....
Other and indefinite.....	8	72	1,253	.....	3	5

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
MACHINERY, ETC.—Concluded						
Paints, Varnishes, Inks and Dyes Machines...	12	326	\$4,253	.....	6	6
Paint and pony mixers...	1	12	214	.....	1	1
Grinding machines...	2	147	1,711	.....	1	1
Machines of recovery, such as screens, etc...	2	54	924	.....	1	1
Other and indefinite...	7	113	1,404	.....	3	4
Rubber, Celluloid and Composition Goods						
Machines...	130	2,777	43,186	.....	52	78
Calenders...	8	408	9,452	.....	2	1
Tire making machines...	7	176	2,167	.....	1	1
Cutting and slitting machines and saws...	28	186	2,645	.....	7	21
Hand and foot presses...	22	533	6,030	.....	7	15
Tubing machines (no fabric)...	1	8	120	.....	1	1
Punching and pressing machines...	24	763	14,353	.....	9	15
Cutting and punching machines, guillotine...	1	8	72	.....	1	1
Drills and lathes...	15	74	879	.....	5	10
Grinding, washing and milling machines...	2	7	103	.....	1	1
Vulcanizing machines...	5	30	336	.....	2	3
Other and indefinite...	22	584	7,029	.....	12	10
Miscellaneous Machines						
Office machines...	39	104	6,742	.....	24	15
Spraying machines...	32	294	5,131	.....	18	14
.....	7	110	1,611	.....	6	1
Other Than Power Working Machines						
Pumps...	275	6,569	118,817	.....	171	164
Fans and blowers...	60	1,411	23,908	.....	45	15
Turntables...	85	2,381	44,746	.....	50	35
Compressors...	1	12	296	.....	1	1
Automatic stokers...	41	867	15,720	.....	25	16
Machines, not otherwise classified...	11	418	6,820	.....	9	2
Hand and foot power devices, n. o. c.‡...	62	1,379	25,434	.....	34	28
Ice harvesting machines...	12	84	1,790	.....	6	5
.....	3	17	213	.....	2	1
Total—Machinery, Prime Movers and Power Transmission Apparatus						
	7,389	192,023	\$2,786,803	(5) 29	3,946	3,414

HOISTING AND CONVEYING APPARATUS

Elevators, Except Construction and Sidewalk...	497	49,951	\$473,470	(2) 31	182	284
Cable breaking...	19	3,400	34,040	1	5	13
Cable unwinding...	1	2	16	.....	1	1
Caught by cable...	14	849	17,758	.....	12	2
Struck by counterweight...	6	2,158	23,795	2	3	1
Machinery breaking...	1	1	8	.....	1	1
Caught in or struck by machinery...	23	639	13,092	.....	17	6
Caught between floor and car...	33	2,067	24,551	1	8	24
Caught between cars or shaft side and car...	28	3,999	31,644	3	10	15
Struck by car in pit...	8	1,198	21,297	(1) 1	3	4
Struck by car elsewhere...	2	36	366	.....	1	1
Sudden start or stop of car...	4	114	1,362	.....	4	1
Car rising too high...	1	103	1,053	.....	1	1
Fall of worker into shaft from floor...	122	26,978	226,366	(1) 19	36	67
Fall of worker into shaft from car...	8	1,591	7,504	1	1	6
Fall of worker into or from car...	8	47	582	.....	1	1
Objects falling down shaft from floor...	7	75	1,185	.....	2	5
Objects falling into car...	2	20	300	.....	2	1
Objects falling down shaft from car...	1	1	6	.....	1	1
Catching of load between car and shaft...	1	6	109	.....	1	1
Gates and doors...	145	2,859	35,496	1	65	79
Fall of car, indefinite...	34	2,143	18,012	1	6	27
Elevators, other and indefinite...	29	1,665	14,928	1	11	17

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

‡ Not otherwise classified.

TABLE 23—(Continued)

NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks [†]	Total amount of compensation [†]	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Dumb-Waiters.....	114	3,912	\$32,864	1	49	54
Cable breaking.....	27	1,064	11,404		14	13
Cable unwinding.....	1	3	39			1
Caught by cable.....	4	42	566		3	1
Struck by counterweight.....	5	43	808		1	4
Caught in or struck by machinery.....	2	22	251		1	1
Caught between floor and car.....	1	1	14			1
Caught between cars or shaft side and car.....	1	33	616		1	
Caught between car and overhead equipment.....	1	4	65			1
Struck by car in pit.....	1	63	487			
Fall of worker into shaft from floor.....	2	182	1,457		1	1
Objects falling down shaft from floor.....	29	1,537	7,197	1	11	17
Objects falling down shaft from car.....	17	378	3,696		10	7
Gates and doors.....	5	11	114			5
Fall of car, indefinite.....	17	492	5,807			11
Dumb-waiters, other and indefinite.....	1	37	343		1	
Sidewalk Elevators.....	34	1,742	12,480	1	16	17
Cable breaking.....	5	207	2,773		2	3
Caught by cable.....	1	8	188		1	
Caught in or struck by machinery.....	3	28	431		1	2
Caught between floor and car.....	5	142	2,250		4	1
Caught between cars or shaft side and car.....	3	137	1,556		1	2
Caught between car and overhead equipment.....	1	18	234			
Sudden start or stop of car.....	1	2	17			1
Gates and doors.....	8	80	1,713		3	5
Fall of car, indefinite.....	5	1,083	2,835	1	2	2
Sidewalk elevators, other and indefinite.....	2	37	483		1	1
Construction Hoists and Elevators.....	22	3,333	22,071	2	9	11
Cable breaking.....	1	74	1,130		1	
Caught by cable.....	3	28	577		3	
Struck by counterweight.....	1	1,000	1,718	1		
Machinery breaking.....	1	593	8,947		1	
Caught in or struck by machinery.....	1	9	81		1	
Sudden start or stop of car.....	1	8	177			1
Fall of worker into shaft from floor.....	2	82	1,689		1	1
Fall of worker into shaft from car.....	5	387	4,037			5
Objects falling down shaft from floor.....	3	77	1,192		1	2
Objects falling down shaft from car.....	1	13	100			1
Fall of car, indefinite.....	3	1,062	2,423	1	1	1
Mine Cages, Skips and Buckets.....	1	1,000	13,345		1	
Locomotive Cranes.....	4	1,263	10,067	1	3	
Caught or struck by car.....	2	244	6,028		2	
Caught or struck by cable or chain.....	1	19	400		1	
Other and indefinite.....	1	1,000	3,639	1		
Gantry and Traveling Cranes.....	232	14,650	179,219	(1)	6	137
Caught or struck by car.....	2	2,434	26,977	2	5	2
Fall of car.....	7	414	8,880		4	
Caught or struck by cable or chain.....	15	456	6,516		12	3
Caught in machinery.....	13	549	11,146		11	2
Caught or struck by hook or sling.....	60	1,916	27,049		39	21
Caught or struck by swinging load.....	26	1,178	16,622		15	11
Struck by load, lowering or raising.....	28	1,483	10,173	1	17	10
Load falling, breaking of cable or chain.....	3	45	710		1	2
Load falling, slipping of cable.....	3	164	1,618			3
Load falling, breaking of hook.....	1	8	95			1
Load falling, slipping of hook.....	9	238	4,978		5	
Load falling, breaking of machinery.....	1	5	67			1
Load falling, slipping of hitch.....	3	270	4,437		2	1
Load falling, failure of current on magnet.....	2	66	1,354		2	
Objects falling from load or bucket.....	26	3,632	37,929	(1)	2	13
Falls from cranes or crane track, not in erecting or rigging.....	12	1,159	10,966	1	4	7
Other and indefinite.....	14	633	9,702		7	7

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Continued						
Derricks and Jib Cranes	223	14,495	\$172,949	(1) 7	101	115
Struck by derrick or crane	9	472	6,367	.....	5	4
Fall of derrick or crane	6	776	12,155	.....	5	1
Caught or struck by cable or chain	26	751	13,425	.....	13	13
Caught in machinery	14	1,191	4,950	1	8	5
Caught or struck by hook or sling	51	2,099	19,151	1	27	23
Boom swinging	13	1,483	21,659	(1) 1	4	8
Boom or mast breaking	6	1,102	13,832	1	2	3
Struck by swinging load	25	1,656	17,980	1	5	10
Struck by load, lowering or raising	18	570	12,595	.....	10	8
Load falling, slipping of cable or hook	8	91	1,979	.....	4	4
Load falling, breaking of cable or hook	5	951	11,705	1	1	4
Load falling, breaking of sling	2	266	4,322	.....	2	.....
Load falling, breaking of machinery	1	7	97	.....	.....	1
Load falling, slipping of hitch	3	2,019	16,387	2	.....	1
Load falling, other and indefinite	1	2	45	.....	.....	1
Objects falling from load	26	770	11,581	.....	10	16
Falls from derrick, crane cab or track, not in erecting or rigging	5	124	2,397	.....	4	1
Other and indefinite	4	165	2,322	.....	1	3
Blocks and Tackles, Winches, Hand Heists, etc.	198	10,749	166,185	(1) 2	116	86
Objects falling from	42	4,459	65,610	(1) 1	16	25
Caught in or struck by	99	2,656	46,066	.....	69	80
Struck by load	12	910	13,858	.....	4	8
Rope or cable breaking or slipping	23	1,696	25,079	1	10	12
Other and indefinite	22	1,028	15,572	.....	11	11
Hay Forks, Derricks and Stackers	8	24	226	.....	1	3
Unloading Machines	16	388	6,733	.....	7	9
Air Hoists	6	94	1,820	.....	1	5
Objects falling from	1	7	108	.....	.....	1
Caught in or struck by	2	15	241	.....	.....	2
Struck by load	2	10	189	.....	.....	2
Rope or cable breaking or slipping	1	62	1,282	.....	1	.....
Overhead Trolleys	26	445	7,572	.....	14	12
Objects falling from	9	72	867	.....	3	5
Caught in or struck by	13	358	6,353	.....	10	3
Struck by load	2	9	229	.....	.....	2
Other and indefinite	2	5	123	.....	1	1
Belt and Chain Conveyors	67	2,685	32,623	1	23	32
Objects falling from	9	37	708	.....	1	8
Caught in or struck by	54	2,632	31,617	1	26	27
Other and indefinite	4	16	298	.....	1	3
Screen Conveyors	3	91	1,993	.....	3	.....
Bucket Conveyors	46	4,867	70,036	(1) 3	29	14
Objects falling from	4	25	565	.....	.....	4
Caught in or struck by	41	3,842	68,764	(1) 2	29	10
Other and indefinite	1	1,000	707	1	.....	.....
Platform Conveyors and Escalators	21	409	7,214	.....	11	10
Charging Machines	1	1	28	.....	.....	1
Hoists and Skips for Blast Furnaces, etc.	1	2	42	.....	.....	1
Worm or Screw Conveyors	1	42	656	.....	1	.....

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HOISTING, ETC.—Concluded						
Hoists and Conveyors, Other and Indefinite.	93	4,398	\$40,375	3	41	47
Objects falling from.....	11	129	1,549	.....	4	7
Caught in or struck by.....	65	2,828	31,814	2	32	31
Struck by load.....	3	62	1,397	.....	2	1
Rope or cable breaking or slipping.....	3	20	382	.....	3	.....
Other and indefinite.....	11	1,359	5,233	1	2	8
Total—Hoisting and Conveying Apparatus	1,610	114,541	\$1,251,968	(6)	58	746
VEHICLES						
Steam and Electric Railways.	392	44,440	\$463,389	(2)	34	120
Train wrecks.....	14	56	1,283	.....	1	13
Collisions.....	15	55	1,241	.....	1	12
Derailments.....	1	1	42	.....	.....	1
Falls from trains.....	169	10,609	141,810	(1)	5	47
Getting on or off, in motion.....	3	33	747	.....	1	2
Getting on or off, at rest.....	70	2,018	20,901	.....	1	56
Riding, slipping or loss of balance.....	3	392	6,455	.....	2	1
Riding, contact with fixed structures.....	11	2,311	23,315	1	1	1
Falls from, loading and indefinite.....	90	5,857	90,392	(1)	3	57
Falls on board.....	41	1,580	16,762	1	7	33
Sudden start or stop.....	11	278	3,391	.....	1	10
Slipping or loss of balance.....	20	1,239	11,933	1	4	15
Other and indefinite.....	10	63	1,438	.....	2	3
Striking against objects while on board.....	4	16	243	.....	.....	4
Caught between cars.....	18	6,296	71,394	5	3	10
While coupling or uncoupling.....	8	2,047	22,512	2	1	5
Other and indefinite.....	10	4,249	48,882	3	2	5
Struck by trains.....	42	23,666	195,062	(1)	23	9
While repairing cars or engines.....	1	5	96	.....	.....	1
While repairing track.....	7	4,174	30,954	4	3	.....
While crossing track.....	3	1,042	4,610	1	1	1
Working or walking on or near track.....	17	9,280	73,392	9	4	4
Other and indefinite.....	14	9,165	86,010	(1)	9	4
Other causes.....	111	2,217	36,835	.....	53	58
Handling brakes.....	12	40	680	.....	4	8
Objects falling from cars, not in loading.....	4	365	6,877	.....	4	.....
Objects shifting on load.....	4	70	1,276	.....	5	1
All other causes.....	91	1,742	28,002	.....	42	49
Mine and Quarry Cars and Motors.	102	9,451	90,769	8	28	56
Collisions.....	4	2,009	14,634	2	.....	2
Derailments.....	5	2,050	22,368	2	2	1
Falls from cars.....	12	56	936	.....	1	11
Riding on, contact with rib or side structure.....	1	41	799	.....	1	.....
Caught between, and overhead structure.....	1	1	17	.....	.....	1
Struck by cars, while coupling or switching.....	16	1,366	11,031	1	5	10
Struck by cars, other and indefinite.....	26	2,304	18,828	2	4	20
Lifting or pushing car.....	10	1,072	11,557	1	3	8
Caught or struck by rope or chain.....	1	1	25	.....	.....	1
Caught by car or load, in dumping or loading.....	6	236	5,045	.....	3	3
Objects falling from car.....	8	31	603	.....	3	5
Mine and quarry cars, other and indefinite.....	12	275	4,326	.....	6	6

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE
Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
VEHICLES — Concluded						
Plant Trucks, Cars and Motors on Tracks.	12	1,828	\$17,128	1	15	16
Collisions.	2	64	1,178		1	1
Derailements.	1	62	902		1	
Caught between, and overhead structure.	1	85	832		1	
Struck by cars, while coupling or switching.	3	65	1,033		2	1
Struck by cars, other and indefinite.	7	1,073	5,063		3	3
Lifting or pushing car.	9	216	3,126		2	7
Caught by car or load, in dumping or loading.	1	37	503		1	
Getting on or off car.	1	8	162			1
Objects falling from car.	1	2	38			1
Plant trucks, etc., other and indefinite.	1	216	4,291		1	2
Contractors Cars and Engines.	1	1,002	16,851		1	2
Automobiles and Other Power Vehicles.	5,131	323,987	3,241,622	(10) 185	1,604	3,342
Automobiles and motor trucks.	4,836	310,354	3,090,914	(9) 178	1,512	3,146
Collisions, skidding.	161	11,487	97,633	7	66	88
Collisions, breaking of parts.	30	2,247	34,561	1	15	14
Collisions with cars and engines.	109	13,998	101,467	12	22	75
Collisions with other vehicles and objects.	917	76,343	720,482	45	295	577
Overturning, skidding or ditching.	88	4,008	56,788	2	23	63
Overturning, breaking of parts.	27	801	11,299		8	19
Overturning, all other.	89	11,185	142,838	(2) 7	80	52
Struck by or caught between.	864	103,271	870,074	(3) 70	235	549
Cranking.	294	8,698	135,174	2	188	154
Engines.	54	2,289	29,937	1	32	21
Breaking of car or part.	13	665	12,924		6	7
Falls from.	1,185	51,159	555,417	(8) 23	263	899
Objects falling from.	118	4,546	52,726	(1) 2	60	56
Objects shifting on load.	36	711	9,173		11	26
Mechanical unloading.	67	1,438	25,182		30	27
Wrecking cars.	15	204	2,862		5	10
Other and indefinite.	789	17,324	252,029	(1) 6	273	510
Power, plant and platform trucks.	67	2,789	34,980	1	19	47
Tractors.	167	9,022	89,764	(1) 6	55	106
Railroad hand cars.	0	114	2,124		2	4
Motorcycles.	55	1,708	23,840		16	39
Bicycles.	87	988	11,240		13	74
Airplanes.	8	4,487	30,478	4	1	3
Animal Drawn Vehicles, Except Mine Cars.	147	3,899	47,676	2	32	113
Collisions with cars and engines.	3	1,008	5,675	1		
Collisions with other vehicles.	2	12	117		1	1
Collisions with other objects.	1	85	1,204		1	
Overturning.	12	276	5,404		3	9
Falls from vehicles.	63	794	16,459		11	52
Struck by or caught between vehicles.	16	1,225	8,952		4	11
Objects falling from vehicles.	0	68	1,391		4	2
Objects shifting on load.	2	32	804		1	1
Breaking of vehicle or part.	4	10	232			4
Sudden start or stop.	31	255	5,683		4	27
Animal drawn vehicles, other and indefinite.	7	136	1,755		3	4
Animal Drawn Implements, Not Machinery.	11	143	2,032			11
Water Craft.	21	7,118	47,597	6	7	8
Collisions with vessels.	2	385	3,200			2
Collisions with other objects.	1	1,000	9,154	1		
Capsizeing.	3	1,042	2,161	1	1	1
Falls from boats or jumping overboard.	7	4,425	28,560	4	2	1
Falls into hatchway.	2	■	177			2
Watercraft, other and indefinite.	6	258	4,345		4	1
All Other Vehicles.	8	100	1,831		2	6
Total — Vehicles.	5,949	397,443	\$3,970,613	(12) 240	1,823	3,886

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
 NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
 AND BY CAUSE
 Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
EXPLOSIONS, ELECTRICITY, HEAT, ETC.						
Boilers and Steam Pressure Apparatus	111	21,550	\$194,307	18	18	75
Steam boilers	63	19,103	180,736	16	12	35
<i>Explosion of steam boilers</i>	38	18,771	174,440	16	9	13
<i>Escaping steam and hot water</i>	13	256	5,395	—	1	12
<i>Other</i>	12	76	901	—	2	10
Steam pipes	18	1,155	6,642	1	1	16
Steam and hot water gauges	3	57	1,114	—	3	—
Other and indefinite	27	1,235	5,815	—	2	24
Explosive Substances	318	38,585	361,948	(2)	27	102
Explosives, manufacturing and storing	2	2,000	8,343	—	2	—
Blasting	33	6,612	118,639	(2)	5	18
<i>Premature shot</i>	4	1,182	14,307	—	1	2
<i>Misfire or delayed shot</i>	8	3,361	80,351	(2)	3	3
<i>Other and indefinite</i>	21	2,127	23,981	—	1	14
Gas, explosion	93	4,887	30,540	3	14	76
Gasoline and other petroleum products	99	6,913	77,363	3	39	57
<i>Explosions of gasoline in automobiles</i>	37	1,473	25,296	—	14	23
<i>Other explosions of gasoline</i>	62	5,440	52,137	—	25	34
Other and indefinite explosions	91	18,173	127,063	14	31	46
High Pressure Apparatus	124	2,287	34,491	—	73	51
Bursting of ammonia apparatus	3	19	307	—	1	2
Bursting of other high pressure apparatus	41	753	12,772	—	23	18
Bursting, other and indefinite	80	1,515	21,412	—	49	31
Electricity	261	35,365	299,761	29	52	180
Trolley wire	5	298	3,218	—	1	4
Third rail	10	1,541	17,714	1	5	4
Transmission wire	36	14,964	117,969	13	10	13
Switchboard apparatus	5	1,105	8,315	—	2	2
Switches, controllers and fuses	43	1,833	21,114	—	8	34
Motors and generators	6	1,112	7,693	—	3	2
Transformers	7	3,130	17,612	3	1	3
Electrical fixtures	24	255	3,405	—	2	22
Electrical appliances	28	4,316	41,208	3	4	21
Short circuits	69	1,642	23,543	—	11	57
Other	28	5,169	37,970	5	5	18
Conflagrations	45	8,295	41,861	(1)	7	13
Fires in buildings	42	8,255	41,191	(1)	7	13
Other fires	3	40	670	—	—	3
Hot Substances and Flames	1,858	32,671	372,319	(1)	12	283
Water	440	3,933	46,385	—	—	410
Asphalt, tar, pitch, etc.	119	1,260	23,760	—	—	90
Other hot liquids	387	1,879	26,607	—	24	363
Molten metal	172	3,600	56,485	(1)	1	47
<i>Explosions of molten metal</i>	11	1,539	20,198	(1)	1	5
<i>At furnace or cupola</i>	27	556	11,152	—	8	19
<i>Pouring, carrying, etc.</i>	64	819	14,945	—	13	51
<i>Slag and all other</i>	70	686	10,190	—	21	49
Radiant heat from incandescent metal	1	1	10	—	—	1
Metal, not molten	—	44	806	—	4	2
Contact with hot surfaces	90	2,085	24,274	—	9	81
Oxyacetylene and electric cutting and welding	43	319	6,097	—	11	32
Flames, clothing	50	8,718	73,619	6	20	24
Flames, other	265	4,635	48,617	—	66	197
Hot glass	3	7	128	—	—	3
Ignition of gasoline, oil, etc.	118	4,721	43,668	2	22	94
Hot objects, other and indefinite	164	1,469	21,863	—	22	142
Total — Explosions, Electricity, Heat, Etc.	2,717	138,753	\$1,304,687	(4)	93	541
						2,083

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23 — (Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY						
Poisonous Substances	268	21,661	\$159,789	18	8	242
Carbon monoxide and dioxide	36	9,171	52,811	8	2	26
Poison ivy and other plants	135	298	3,293	1	1	134
Illuminating gas	10	4,090	27,144	4	1	1
Hydrocyanic acid and cyanide gases and fumes	2	1,347	12,310	1	1	1
Septic infection	8	144	2,010	1	1	7
Poisonous substances, other and indefinite	77	6,611	62,221	5	3	69
Corrosive Substances	586	6,345	109,339		110	476
Lime	201	2,494	46,395		26	175
Cement	48	575	8,872		4	44
Acids	118	1,224	17,831		36	82
Alkalies	99	850	14,320		26	73
Other chemicals	120	1,202	22,121		18	102
Irritant but not Corrosive Substances	20	56	781		1	19
Occupational Diseases From§	1,522	63,629	\$15,825	(10)	34	1,424
Anthrax	11	1,045	6,912	1	2	3
Lead poisoning	84	9,792	94,747	5	1	78
Zinc poisoning	2	1,457	12,282	1	1	1
Mercury	2	701	5,604		2	
Arsenic	2	1,000	7,004		1	1
Nitro and amido derivatives of benzol	76	5,386	54,191	3	2	71
Carbon bisulphide	2	2	29			2
Dope (lacquers)	14	303	3,358			14
Formaldehyde	5	10	120			5
Chromic acid (chrome ulcer)	4	14	296			4
Handling tar, pitch, etc.	2	1,009	5,751	1		1
Compressed air	24	324	5,508		4	20
Carbon monoxide	11	145	2,639			11
Sulphuric, hydrochloric and hydrofluoric acid	3	10	84			3
Fumes from petroleum products (respiratory and gastro-intestinal disorders)	11	134	1,567			11
Continuous friction, rubbing, etc. (blisters and abrasions)	225	1,028	15,702		24	201
Continuous vibration, pressure, etc. (bursitis or synovitis)	127	737	11,590		7	120
Direct contact with harmful alkalies, acids, etc. (dermatitis)	686	10,695	132,805		7	679
Silica and dust	38	20,555	67,938	(10)	19	19
All other causes	198	9,346	87,698	4	15	179
Total — Harmful Substances and Occupational Activity	2,396	91,751	\$785,734	(10)	52	183
						2,161

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS

Falls on Stairs and Steps	2,918	90,077	\$908,350	(3)	26	608	2,284
Due to handling objects	457	12,512	121,515	2	2	79	376
Slipping on wet steps	102	1,889	23,227			18	84
Slipping on icy steps	92	1,247	17,714			13	79
Slipping or loss of balance (n.o.c.)†	1,164	32,990	340,604	7	256	401	
Stumbling, misstepping, heel catching, etc.	591	14,511	152,251	(1)	4	129	458
Falling over loose objects on stairs	109	3,177	35,423			22	87
Knocked down stairs	2	5	95				2
Defective or broken stairs	89	4,499	52,968	(1)	2	20	67
Other and indefinite	312	19,247	164,553	(1)	11	71	230

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

§ See also "Poisonous Substances" and "Corrosive Substances".

† Not otherwise classified.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE
Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLS OF WORKERS—Concluded						
Falls from Ladders.....	1,821	94,443	\$1,234,155	(2) 23	617	1,181
Breaking of ladder or parts.....	148	9,663	118,886	1	47	97
Slipping, twisting or fall of ladder.....	689	31,191	447,706	1	260	425
Knocked off ladder.....	32	4,209	51,521	(1) 3	14	15
Falls from ladders while handling objects.....	85	7,005	75,418	2	33	50
Slipping of foot or loss of balance.....	515	22,741	315,519	4	148	363
Falling in getting on or off.....	81	3,118	40,503	1	17	63
Slipping or breaking of tool.....	16	1,421	21,035	1	7	9
Other and indefinite.....	255	15,097	163,567	(1) 5	91	159
Falls from Scaffolds and Stagings.....	750	72,949	935,541	(2) 25	263	452
Breaking or slipping of scaffold.....	268	24,804	325,461	1	97	165
Breaking of tackle or support.....	20	4,735	57,235	2	12	6
Tilting of scaffold.....	1	268	4,625	1	3	1
Tilting or falling of loose plank.....	39	3,433	53,035	1	15	23
Defective or broken surfaces.....	14	293	4,155	1	4	10
Falls from scaffolds while handling objects.....	31	3,948	58,732	(1) 1	7	23
Slipping or loss of balance.....	154	11,007	158,905	(1) 3	55	96
Falling over loose objects on scaffold.....	6	342	7,490	1	4	2
Knocked off scaffold.....	16	1,411	16,570	1	4	12
Falling in getting on or off.....	72	2,621	34,821	1	19	52
Slipping or breaking of tool.....	7	1,821	26,019	1	3	3
Other and indefinite.....	119	18,266	188,693	10	40	69
Falls from Other Elevations.....	2,002	153,738	1,738,837	(7) 74	573	1,355
Benches, boxes, chairs and tables.....	590	15,985	216,331	1	126	466
Structures not in erection or demolition.....	27	6,749	49,378	1	7	14
Cranes, derricks, elevators and hoists in erection and rigging.....	3	2,072	16,865	2	1	1
Elevated bins, pockets and tanks.....	9	83	1,504	1	2	7
Structures in erection or demolition.....	174	23,204	275,289	11	57	106
Temporary floors.....	2	100	2,412	1	1	1
Boilers, engines and machines.....	92	6,796	93,848	3	39	50
Piles of material.....	106	7,223	71,856	(1) 3	26	77
Poles, trees and towers.....	97	12,230	156,718	(2) 7	36	54
Roofs.....	94	11,732	124,941	(1) 6	48	40
Runways, balconies and platforms.....	463	21,858	277,567	(1) 1	134	323
Loading platforms.....	56	2,282	30,597	1	17	38
Gangplanks.....	1	1,111	2,917	1	3	6
Tramways and trestles (incl. railroads).....	7	305	3,918	1	3	4
Window and wall openings.....	64	25,339	190,943	21	20	23
All other elevations.....	209	16,669	223,753	(2) 7	53	149
Falls into Excavations, Pits and Openings.....	524	41,180	393,934	17	123	384
Bins, vats, etc., with hot or corrosive substances.....	30	2,954	18,616	2	7	21
Bins, pits and vats, other.....	118	7,572	60,932	5	27	86
Floor openings, except elevator shafts.....	189	16,830	174,094	1	43	141
Manholes (street, sidewalk, etc.).....	16	394	6,828	1	4	12
Quarry, from bench or face.....	3	2,014	2,089	2	1	1
Excavations, ditches, and other openings.....	168	11,416	131,375	3	42	123
Falls on Level Surfaces.....	10,137	236,269	3,140,356	(9) 41	2,229	7,867
Slipping of foot.....	3,655	84,692	1,140,181	(4) 12	900	2,743
Falls due to defective surfaces.....	224	3,988	61,400	1	36	187
Slipping or breaking of tools or work.....	303	8,174	97,994	3	55	245
Stumbling over fixed objects.....	141	3,382	57,173	1	41	100
Falls when handling bulky objects.....	2,677	60,588	787,448	(3) 1	403	2,265
Stumbling over loose objects.....	1,320	32,154	428,998	(1) 5	306	1,008
Falls with injuries due to objects in hands.....	801	18,973	217,070	(1) 7	227	567
Injury or fall due to foot catching.....	145	4,103	64,415	1	37	108
Other and indefinite.....	871	20,215	285,677	3	224	644
Other and Indefinite Falls of Workers.....	104	1,968	39,894	(1) 1	11	92
Total—Falls of Workers.....	18,256	690,624	\$8,391,067	(24) 207	4,424	13,625

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE
Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
STEPPING ON AND STRIKING OBJECTS						
Stepping on Objects.....	507	4,610	\$46,639	2	30	475
Nails.....	424	3,870	36,339	2	18	404
Sharp objects, other and indefinite.....	83	740	10,300	.....	12	71
Striking Objects.....	3,255	53,657	707,601	(3) 14	756	2,475
Nails.....	166	2,577	37,103	.....	25	141
Sharp projections from walls, etc.....	355	3,380	54,884	.....	81	274
Fixed objects.....	1,442	22,644	335,616	(3) 5	367	1,070
Fellow worker.....	118	7,389	51,572	4	33	81
Loose objects, and other or indefinite.....	1,122	16,492	210,718	5	242	875
Struck by object stepped on.....	52	1,195	17,708	.....	18	34
Total — Stepping On and Striking Objects	3,762	58,267	\$754,240	(3) 16	796	2,950
FALLING OBJECTS, NOT IN HANDLING						
Collapses.....	149	12,592	\$148,634	7	49	93
Buildings and walls.....	32	4,552	69,831	2	17	13
Piles.....	93	4,782	49,168	3	26	64
Scaffolds and stagings.....	12	1,589	13,631	1	3	8
Chutes, conveyors, slides and screens.....	2	222	1,896	.....	1	1
Other and indefinite.....	10	1,447	14,108	1	2	7
Objects Falling from Elevations.....	1,270	36,767	472,323	(2) 7	472	791
Structures not in erection or demolition.....	65	2,879	27,295	1	17	47
Bins and pockets.....	2	3	44	.....	1	2
Trestles and tramways.....	2	143	2,014	.....	1	1
Runways, balconies and platforms.....	13	163	2,342	.....	6	7
Racks and shelves.....	85	1,123	15,474	.....	36	49
Floor openings, except elevator shafts.....	16	267	6,260	.....	5	11
Chutes, conveyors, slides and screens.....	42	878	10,714	.....	12	30
Machines and workbenches.....	297	4,756	67,635	.....	150	147
Piles.....	170	4,273	55,433	.....	65	105
Structures in erection or demolition.....	200	13,517	172,488	(2) 5	45	150
Scaffolds and stagings.....	44	1,077	12,897	.....	13	31
Other and indefinite.....	334	7,688	99,727	1	122	211
Trees Falling.....	91	3,431	31,531	1	33	57
Fall of trees in felling.....	55	1,338	15,325	.....	16	39
Trees lodged in felling.....	13	1,572	9,235	1	7	5
Kick-backs of trees in felling.....	7	290	4,523	.....	3	4
Spring-poles.....	3	75	799	.....	2	1
Limbs, not in felling trees.....	13	156	1,649	.....	5	8
Objects Tipping Over.....	236	9,818	87,301	4	106	170
Objects Falling Into Excavations.....	56	2,583	25,928	1	13	42
Ditches and trenches.....	38	2,206	21,458	1	7	20
Other and indefinite.....	18	377	4,470	.....	6	12
Cave-ins.....	115	14,911	124,213	7	22	86
Ditches and trenches.....	71	8,739	81,788	4	15	52
Tunnels.....	1	782	9,085	.....	1	.....
Sand banks and all other cave-ins.....	43	5,390	33,360	3	6	34
Falling Objects in Mines, Quarries and Tunnels	182	14,799	133,371	10	74	98
Coal, rock and ore at working face.....	89	6,639	47,035	5	35	49
Coal, rock and ore from pillars and ribs.....	1	6	131	.....	1	.....
Coal, rock and ore in chutes, manways, etc.....	22	2,366	18,608	2	12	8
Roof in working places.....	21	3,474	34,100	3	6	12
Timbers.....	22	1,235	16,350	.....	10	12
From surface into shaft.....	1	38	596	.....	1	.....
Cave-in of mine or mine squeeze.....	1	5	120	.....	.....	1
Other and indefinite.....	25	1,036	15,931	.....	9	16

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Continued)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
FALLING OBJECTS—Concluded						
Other Falling and Shifting Objects.....	347	11,940	\$160,680	(1) 5	113	229
Poles.....	3	1,024	5,909	1	1	1
Objects falling due to wind, etc.....	35	589	11,299		15	20
Other falling and shifting objects.....	309	10,327	143,472	(1) 4	97	208
Falling Objects, Handling Not Determined.....	561	8,275	140,448	.....	221	310
Total — Falling Objects, Not in Handling.....	3,151	115,116	\$1,324,429	(3) 42	1,163	1,946
HANDLING OBJECTS						
Heavy and Bulky Objects.....	18,458	301,768	\$3,993,626	(8) 41	3,726	14,683
Objects dropped while handling, carrying, etc.....	2,654	32,204	507,982	1	1,235	1,418
Objects handled by fellow worker.....	450	7,617	94,176	2	197	251
Objects dropped or falling while loading.....	1,073	15,713	234,806	(1) 3	434	636
Objects dropped or falling while piling.....	182	4,096	55,944	1	63	118
Caught between object handled and other object.....	1,434	17,232	291,986		796	638
Strain in handling.....	10,759	188,765	2,309,732	(5) 35	263	10,461
Objects slipping, breaking and other or indefinite.....	1,906	36,141	499,000	(2) 7	738	1,161
Sharp and Rough Objects.....	4,293	46,982	654,619	2	1,146	3,138
Glass.....	808	8,316	131,893	1	244	563
Nails.....	226	1,857	32,457		46	180
Wire and metal straps.....	423	4,972	69,719	1	119	303
Sheet metal and sheet metal objects.....	519	5,460	64,540	2	134	383
Wood slivers.....	493	8,460	91,029	1	122	367
Metal slivers.....	382	3,418	54,519		111	271
Castings.....	5	33	777		1	1
Bones.....	149	1,439	26,117		41	108
In hands of fellow worker.....	7	47	626		2	5
Pins and sharp objects, other and indefinite.....	1,281	12,980	182,942	1	326	954
Hand Trucks, Carts and Wheelbarrows.....	1,050	13,658	201,935	.....	351	699
Struck by truck in handling.....	336	3,239	48,192		85	251
Struck by truck handled by fellow worker.....	72	1,745	20,879		14	58
Caught between truck and other object.....	148	2,130	30,667		60	88
Objects falling from truck, not in handling.....	170	2,628	41,831		85	85
Overturning.....	95	2,154	33,454		27	68
Running over hands or feet.....	189	1,140	18,862		73	116
Other and indefinite.....	40	622	8,050		7	33
Continued Wear from Handling and Friction						
Burns.....	98	598	9,612		15	83
Handling Objects, Not Heavy, Bulky or Sharp.....	38	713	9,999	.....	12	26
Total — Handling Objects.....	23,937	363,719	\$4,869,791	(8) 58	5,250	18,629
HAND TOOLS						
In Hands of Injured Worker.....	4,372	73,346	\$1,107,516	(5) 12	1,699	2,661
Glancing and slipping of tool in use.....	3,580	47,074	706,050	(1) 8	1,368	2,204
Breaking and coming apart of tool.....	101	2,419	35,266		52	49
Flying pieces set in motion by tool.....	602	23,252	356,386	(4) 4	256	342
Nails and spikes.....	37	1,481	25,897		17	20
Metal chips.....	238	9,690	155,480	(2) 2	98	188
Stone.....	117	4,845	57,499	(1) 1	88	78
Other and indefinite.....	212	7,236	117,560	(1) 1	103	108

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 23—(Concluded)
NUMBER, SEVERITY AND COST OF COMPENSATED ACCIDENTS, BY KIND OF DISABILITY
AND BY CAUSE

Cases closed in 1939

Causes of accidents	Total number of cases	Total number of weeks†	Total amount of compensation†	Kind of disability		
				Death and permanent total*	Permanent partial	Temporary
HAND TOOLS—Concluded						
In Hands of Injured Worker—Concluded						
Tools in hands of injured worker, other and indefinite.....	80	601	\$9,814	.....	23	66
In Hands of Fellow Worker.....	369	5,804	91,197	.....	212	157
Glancing and slipping of tool in use.....	303	3,874	64,782	.....	183	120
Breaking and coming apart of tool.....	10	247	3,157	.....	5	5
Flying pieces set in motion by tool.....	52	1,675	23,082	.....	23	29
<i>Nails and spikes</i>	1	24	565	.....	1	.....
<i>Metal chips</i>	25	1,307	17,587	.....	11	14
<i>Stone</i>	12	258	3,550	.....	4	8
<i>Other and indefinite</i>	14	86	1,380	.....	7	7
Tools in hands of fellow worker, other and indefinite.....	4	8	176	.....	1	3
Total — Hand Tools.....	4,741	79,150	\$1,198,713	(5) 12	1,911	2,818
ANIMALS						
Draft Animals.....	234	12,467	\$120,569	7	83	144
Kicked and stepped on by animals.....	88	3,826	36,149	2	33	53
Bites.....	2	19	184	.....	.....	2
Runaways.....	45	4,219	33,608	3	15	27
Other and indefinite.....	99	4,403	50,628	2	35	62
Other Animals.....	175	6,645	74,200	4	47	124
Total — Animals.....	409	19,112	\$194,769	11	130	268
MISCELLANEOUS						
Miscellaneous.....	2,908	88,008	\$1,105,301	(7) 32	933	1,943
Flying particles and objects, not from machines and hand tools.....	338	6,477	110,775	(1) 1	83	254
Doors, windows, covers and gates.....	962	16,141	202,676	3	406	553
Drenching, not drowning.....	14	2,454	23,616	2	1	11
Heat prostration and sunstroke.....	28	6,249	36,613	.....	.....	22
Cold, including frost bite.....	67	4,713	78,301	(2) 3	16	48
Lightning.....	4	1,024	12,755	1	1	2
Violence of fellow worker.....	95	4,555	63,918	1	47	47
Violence, all other.....	488	21,043	238,248	(3) 7	224	257
Wrestling, sparring, chasing, and horseplay.....	20	188	2,404	.....	4	16
Compressed air, not explosions.....	111	4,851	78,134	.....	52	59
Cyclones, floods, earthquakes, etc.....	7	173	2,371	.....	3	4
Miscellaneous accidents, other.....	159	10,294	114,696	(1) 6	36	117
Injuries due to position assumed.....	600	9,700	138,302	2	55	543
Swallowing objects.....	8	54	571	.....	1	7
Accidental discharge of firearms.....	7	92	1,921	.....	4	3
Total — Miscellaneous.....	2,908	88,008	\$1,105,301	(7) 32	933	1,943
INDEFINITE HISTORY OF ACCIDENT						
Indefinite History of Accident.....	132	2,742	\$33,242	1	24	107
Grand Total — All Accidents.....	77,357	2,351,249	\$27,971,357	(87) 851	21,870	54,636

* Figures in parentheses show the number of permanent total disability cases included.

† Includes the standard weighting of 1,000 weeks and the estimated present value for each death and permanent total disability case.

TABLE 24
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other

MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS

Prime Movers	78	20	27	7	13	1	0
Steam engines.....	6	3	1	.....	1	.....	1
Gasoline engines.....	52	7	22	6	7	2	18
Electric motors and dynamos.....	19	10	3	1	5	.....	.....
Prime movers, other and indefinite.....	1	.....	1	.....	.....	.....	.....
Power Transmission Apparatus	291	231	16	6	7	13	18
Shafts.....	23	23	.....	.....	.....	.....	.....
Set screws, keys and bolts.....	2	2	.....	.....	.....	.....	.....
Belts and pulleys.....	157	124	6	2	3	10	12
Chains and sprockets.....	27	24	2	.....	.....	.....	1
Ropes, cables and drums.....	20	8	5	3	.....	.....	4
Cogs, cams, gears and friction wheels.....	56	45	2	1	4	3	1
Clutches.....	2	2	.....	.....	.....	.....	.....
Ratchets.....	4	3	1	.....	.....	.....	.....

POWER WORKING MACHINES

Stone, Clay and Glass Products Machines	40	35	2	.....	.....	.....	3
Brick and tile making machines.....	2	2	.....	.....	.....	.....	1
Cement making machines.....	7	6	.....	.....	.....	.....	.....
Glass making machines.....	17	17	.....	.....	.....	.....	.....
Emery and carborundum making machines.....	4	4	.....	.....	.....	.....	.....
Stone and ore crushers and grinders.....	3	.....	1	.....	.....	.....	2
Stone working machines.....	7	6	1	.....	.....	.....	.....
Metal Working Machines	2,245	1,923	115	62	26	114	5
Abrasive wheels.....	246	198	7	13	6	18	4
Bending and straightening machines.....	50	40	0	.....	.....	1	.....
Pipe cutting and threading machines.....	21	7	11	.....	1	2	.....
Boring machines.....	10	10	.....	.....	.....	.....	.....
Drills.....	78	69	.....	3	.....	1	.....
Milling and gear cutting machines.....	61	58	.....	1	1	1	.....
Hammers and forging machines.....	45	39	1	4	.....	1	.....
Lathes and automatic screw machines.....	135	123	.....	3	2	7	.....
Cleaning mills, tumblers, etc.....	8	8	.....	.....	.....	.....	.....
Molding machines.....	20	20	.....	.....	.....	.....	.....
Planers and shapers.....	17	16	1	.....	.....	.....	.....
Polishers and buffers.....	144	132	.....	1	1	10	.....
Portable power tools.....	242	104	70	30	14	23	1
Power presses.....	618	608	4	3	.....	3	.....
Hand and foot presses.....	193	190	1	.....	.....	2	.....
Rolling and blooming mills.....	22	22	.....	.....	.....	.....	.....
Metal saws.....	61	59	.....	.....	.....	2	.....
Metal shears and cutting machines.....	119	70	5	2	.....	42	.....
Welding and heat cutting machines.....	20	16	1	2	.....	1	.....
Wire working machines.....	39	39	.....	.....	.....	.....	.....
Cable making machines.....	1	1	.....	.....	.....	.....	.....
Wire and tube drawing machines.....	15	15	.....	.....	.....	.....	.....
Hydraulic, pneumatic and screw presses.....	0	2	.....	.....	.....	.....	.....
Heat treating machines.....	1	1	.....	.....	.....	.....	.....
Automatic can making machines.....	3	3	.....	.....	.....	.....	.....
Metal working machines, other and indefinite.....	74	73	1	.....	.....	.....	.....

Wood Working Machines	503	730	59	15	33	53	13
Boring machines and drills.....	24	20	1	2	.....	1	.....
Cork working machines.....	3	3	.....	.....	.....	.....	.....
Lathes.....	9	9	.....	.....	.....	.....	.....
Mortising machines.....	5	5	.....	.....	.....	.....	.....
Nailing machines.....	8	8	.....	.....	.....	.....	.....
Tenoning, planing and molding machines.....	157	129	14	1	4	5	1
Presses (wood working).....	11	11	.....	.....	.....	2	.....
Sanding machines.....	25	22	1	.....	1	.....	.....
Band, scroll and jig saws.....	31	27	1	1	.....	1	1

TABLE 24 — (Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry						
		Manufacturing	Construction	Transportation	Service	Trade	Other	
MACHINERY, ETC. — Continued								
Wood Working Machines — Concluded								
Circular, universal and table saws.....	502	371	41	8	28	43	11	
Shapers.....	83	83	1			1		
Veneering machines.....	11	9						
Brush and broom making machines.....	20	20						
Wood working machines, other and indefinite.....	14	13				1		
Leather Working Machines — Tanneries.								
Buffing drums.....	2	2						
Fur working machines.....	6	6						
Fleshing, skiving and shaving machines.....	12	12						
Rolling, felting and glazing jacks.....	8	8						
Setting up and setting out machines.....	3	3						
Splitting machines.....	3	3						
Unhairing machines.....	2	2						
Other and indefinite.....	11	11						
Leather Products Machines.								
Cutting, skiving and slitting machines.....	61	59						
Punching and pressing machines.....	84	82					2	
Sewing machines.....	44	44						
Buffing machines.....	8	8						
Other shoe making machines.....	79	79						
Other and indefinite.....	10	10						
Paper Making Machines.								
Barkers, chippers, splitters and grinders.....	10	10						
Wet machines and presses.....	1	1						
Beaters, including rag washers.....	7	7						
Screens.....	1	1						
Paper machines.....	41	41						
Rolls and winders.....	33	33						
Cutters and slitters.....	12	12						
Paper coating machines.....	6	6						
Other and indefinite.....	4	4						
Paper Products Machines.								
Paper cup machines.....	14	14						
Automatic box making machines.....	38	38						
Covering machines.....	6	6						
Cutting and punching machines.....	94	89	1	1	1	1	2	
Paper balers.....	34	15			1	3	15	
Doming and ending machines.....	3	3						
Corner stayng machines.....	12	12						
Bag and envelope making machines.....	16	16						
Creasing and folding machines.....	12	12						
Embossing presses.....	12	12						
Other and indefinite.....	39	39						
Printing and Bookbinding Machines.								
Composing machines.....	39	39					2	
Printing presses.....	220	217	1				2	
Binding presses.....	1	1						
Sewing and stitching machines.....	48	48						
Other printing machines.....	20	20						
Other bookbinding machines.....	20	20						
Textile Machines.								
Washers.....	5	5				7	11	
Opening and cleaning machines.....	15	15						
Carding and combing machines.....	35	35						
Spinning machines.....	27	27						
Weaving machines.....	47	47						
Dyeing, finishing and printing machines.....	27	27						
Shearing machines.....	2	2						
Braiding, knitting and lace making machines.....	45	45						
Rope making machines.....	9	9						

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Continued							
Textile Machines—Concluded							
Sewing machines	583	571				8	
Cloth cutting and stamping machines	357	351			8	3	
Hat making machines	16	15	1				
Coating and inlaying machines	8	8					
Winders, doublers and quillers	29	29					
Other and indefinite	35	35					
Laundry Machines	323	274	1		40	7	1
Centrifugal extractors	8	7			1		
Carpet cleaners and tumblers	8	8					
Ironing machines	231	217			10	4	
Washing machines	37	29			5	2	1
Wringers and other or indefinite	39	13	1		24	1	
Food Products Machines	795	356	1	5	253	179	1
Cleaning, preparing and sorting machines	12	12					
Milling and grinding machines	10	10			4	5	
Mixing machines and kettles	46	40	1	1	3	1	
Cookers and ovens	1	1					
Shaping and forming machines	67	61			5	1	
Cutting and chopping machines	427	55		3	204	164	1
Candy making machines	30	30					
Ice crushers and cutting machines	38	3		1	30	1	
Packing machines, all kinds	56	53					
Bottling machines	44	44					
Tobacco working machines	4	4					
Centrifugal extractors and separators	1	1					
Dishwashing and cleaning machines	18	12			6		
Other and indefinite	32	30			1	1	
Farm Machines	42	2		1	3	5	31
Feed and ensilage cutting machines	5	1				1	3
Harvesters and mowers	16			1	2	1	12
Threshers	2						2
Hay presses and balers	2						2
Plows, harrows and other farm machines	17	1			1	1	12
Construction Machines	404	6	318	38	22	2	18
Concrete mixers	91	5	77	1	4		1
Rock drills	36	1	25	2			8
Pile drivers	17		16	1			
Road rollers and graders	48		40	3	5		
Well drills	9		7				2
Trench and ditch digging machines	8		8				
Power shovels and dredging machines	55		70	5	2	1	7
Other and indefinite	110		75	23	11	1	
Chemical Products Machines	46	46					
Grinding machines	4	4					
Agitating mixers, vats and kettles	4	4					
Machines of recovery, such as screens, etc.	2	2					
Furnaces, dryers, ovens and evaporators	1	1					
Crushers	5	5					
Calenders	1	1					
Soap stamping presses, power	2	2					
Soap stamping presses, hand or foot	2	2					
Packing machines, all kinds	11	11					
Tablet presses and pill making machines	3	3					
Other and indefinite	11	11					
Paints, Varnishes, Inks and Dyes Machines	23	23					
Agitating mixers and kettles	3	3					
Paint and pony mixers	5	1					
Grinding machines	1	1					
Other and indefinite	11	11					

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Concluded							
Rubber, Celluloid and Composition Goods							
Machines.	150	148					
Tire making machines	2	1					2
Hose making machines	1	1					1
Mixers	3	3					
Cutting and slitting machines and saws	24	23					1
Hand and foot presses	22	22					
Covering machines, insulated wire	1	1					
Punching and pressing machines	38	38					
Cutting and punching machines, guillotine	8	8					
Comb cutting machines	3	3					
Drills and lathes	22	22					
Grinding, washing and milling machines	6	6					
Vulcanizing machines	1	1					
Other and indefinite	21	21					
Mining and Ore Refining Machines.	3						3
Miscellaneous Machines.	35	2	1		28	4	1
Office machines	29	1			27	1	
Spraying machines	6	1	1		1	2	1
All other	1					1	
Other Than Power Working Machines.	280	69	54	21	90	40	5
Pumps	56	12	8	6	18	7	
Fans and blowers	84	27	12	7	29	8	
Turntables	1	1					
Compressors	50	5	29	5	8	3	
Automatic stokers	4	1			3		
Machines, not otherwise classified	72	21	5	3	24	18	1
Hand and foot power devices, n. o. c.*	11	1			8	2	
Ice harvesting machines	2	1				1	
Total—Machinery, Prime Movers and Power Transmission Apparatus.	7,971	6,127	597	157	526	455	109
HOISTING AND CONVEYING APPARATUS							
Elevators, Except Construction and Sidewalk.	494	101	44	29	230	90	
Cable breaking	11	2			6	3	
Cable unwinding	3	2			1		
Caught by cable	23	2	4	2	13	2	
Struck by counterweight	8	1			6	1	
Caught in or struck by machinery	22	3	5		13		1
Caught between floor and car	48	12	2	2	17	15	
Caught between cars or shaft side and car	31	7	2	3	9	10	
Caught between gate and car	2				1	1	
Caught between car and overhead equipment	3	1			1	1	
Struck by car in pit	4		2		1	1	
Struck by car elsewhere	4	1			3		
Sudden start or stop of car	6	2			2	1	
Fall of worker into shaft from floor	107	20	9	8	56	14	
Fall of worker into shaft from car	10	2	2		5	1	
Fall of worker into or from car	13	1		1	8	3	
Objects falling down shaft from floor	4		3			1	
Objects falling into car	2	2					
Objects falling down shaft from car	1				1		
Catching of load between car and shaft	1						1
Gates and doors	154	34	9	12	69	30	
Fall of car, indefinite	17	6	1		7	3	
Elevators, other and indefinite	20	3	5		11	1	
Dumb-Waiters.	126	1		1	122	1	1
Sidewalk Elevators.	38	3	3	7	16	9	
Construction Hoists and Elevators.	13		13				
Mine Cages, Skips and Buckets.	1		1				

* Not otherwise classified.

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transporta- tion	Service	Trade	Other
HOISTING, ETC.—Continued							
Locomotive Cranes.	5	1	1	2		1	
Fall of car.	1					1	
Caught in machinery.	1		1				
Load falling, breaking of cable or chain.	1			1			
Objects falling from load or bucket.	1			1			
Falls from cranes or crane track, not in erecting or rigging.	1	1					
Gantry and Traveling Cranes.	219	132	11	17	3	15	
Caught or struck by car.	15	8	2	4		1	
Fall of car.	1	1					
Caught or struck by cable or chain.	19	11	11	1	1		
Caught in machinery.	15	6	5	1		3	
Caught or struck by hook or sling.	64	36	21	5		2	
Caught or struck by swinging load.	24	17	3	2	1	1	
Struck by load, lowering or raising.	20	16	3			1	
Load falling, breaking of cable or chain.	3	3					
Load falling, slipping of cable.	2	1	1				
Load falling, slipping of hook.	8	8					
Load falling, slipping of hitch.	6	4	1	1			
Load falling, failure of current on magnet.	2	1				1	
Objects falling from load or bucket.	17	10	3	2		2	
Falls from cranes or crane track, not in erecting or rigging.	11	4	4	1		2	
Other and indefinite.	12	6	3		1	2	
Derricks and Jib Cranes.	217	52	93	52	9	5	6
Struck by derrick or crane.	7	2	3	2			
Fall of derrick or crane.	5	1	3	1			
Caught or struck by cable or chain.	12	3	11	1			
Caught in machinery.	14	2	9		3		
Caught or struck by hook or sling.	53	10	22	13	2	2	4
Boom swinging.	7		5		1	1	
Boom or mast breaking.	2				1		
Struck by swinging load.	37	5	16	15		1	
Struck by load, lowering or raising.	24	11	5	8			
Load falling, slipping of cable or hook.	11	2	2	2			
Load falling, breaking of cable or hook.	2	2					
Load falling, breaking of sling.	1	1					
Load falling, slipping of hitch.	3	1	1				1
Load falling, other and indefinite.	9	1	4	4			
Objects falling from load.	22	9	8	1	1		
Falls from crane load.	1		1				
Falls from derrick, crane cab or track, not in erecting or rigging.	4		2	1		1	1
Other and indefinite.	8	2	4	1	1		
Blocks and Tackles, Winches, Hand Hoists, Etc.	160	45	60	22	17	14	2
Objects falling from.	26	10	9	4	2	1	
Caught in or struck by.	75	14	34	11	1	7	1
Struck by load.	8	1	4	1		2	
Rope or cable breaking or slipping.	28	11	7	3	4	2	1
Other and indefinite.	23	9	6	3	3	2	
Hay Forks, Derricks and Stackers.	5	1				1	4
Unloading Machines.	18	9	1		1	6	1
Air Hoists.	8	8					
Overhead Trolleys.	25	17		2	1	4	1
Belt and Chain Conveyors.	46	31	3	6	1	2	3
Screen Conveyors.	1						1
Bucket Conveyors.	58	14	19	10	2	20	3

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HOISTING, ETC.—Concluded							
Platform Conveyors and Escalators.....	9	2	.....	6	1	.....	.....
Charging Machines.....	55	5	.....	.....	.....	.....	.....
Hoists and Skips for Blast Furnaces, Etc.....	53	1	.....	.....	.....	.....	2
Worm or Screw Conveyors.....	53	2	.....	1	.....	.....	.....
Hoists and Conveyors, Other and Indefinite.....	95	47	10	17	2	17	3
Total—Hoisting and Conveying Apparatus	1,561	472	300	172	485	185	27

VEHICLES

Steam and Electric Railways.....	436	53	16	307	24	31	5
Train wrecks.....	25	1	2	22	.....	.....	.....
Collisions.....	15	.....	.....	15	.....	.....	.....
Derailments.....	9	1	2	6	.....	.....	.....
Other and indefinite.....	1	.....	.....	1	.....	.....	.....
Falls from trains.....	174	25	6	108	15	19	1
Getting on or off, in motion.....	7	1	.....	4	2	.....	.....
Getting on or off, at rest.....	70	4	1	52	11	.....	.....
Riding, sudden start or stop.....	1	.....	1	.....	.....	.....	.....
Riding, slipping or loss of balance.....	4	1	.....	3	.....	.....	.....
Loading and indefinite.....	92	19	4	49	.....	17	1
Falls on board.....	50	4	.....	39	3	2	1
Sudden start or stop.....	13	.....	.....	11	2	.....	.....
Slipping or loss of balance.....	20	1	.....	16	1	1	1
Other and indefinite.....	17	3	.....	12	1	1	.....
Striking against objects while on board.....	8	2	.....	5	1	.....	.....
Fixed structures.....	7	2	.....	5	.....	.....	.....
Other objects.....	1	.....	.....	1	.....	.....	.....
Caught between cars.....	14	1	.....	11	.....	.....	2
While coupling or uncoupling.....	7	.....	.....	6	.....	.....	2
Other and indefinite.....	7	1	.....	6	.....	.....	.....
Struck by trains.....	48	2	6	38	2	.....	.....
While switching.....	2	.....	1	1	.....	.....	.....
While repairing track.....	1	.....	.....	1	.....	.....	.....
While crossing track.....	8	.....	1	7	.....	.....	.....
Working or walking on or near track.....	21	1	.....	17	.....	.....	.....
Other and indefinite.....	16	1	1	12	2	.....	.....
Other causes.....	117	18	2	84	2	10	1
Handling brakes.....	6	.....	.....	6	.....	.....	.....
Objects falling from cars, not in loading.....	6	2	.....	.....	.....	2	.....
Objects shifting on load.....	1	.....	.....	1	.....	.....	.....
Air brakes, including air hose.....	1	.....	.....	1	.....	.....	.....
All other causes.....	103	10	.....	74	.....	8	1
Mine and Quarry Cars and Motors.....	30	.....	15	.....	.....	.....	15
Plant Trucks, Cars and Motors on Tracks.....	47	38	1	3	1	2	2
Contractor's Cars and Engines.....	5	.....	5	.....	.....	.....	.....
Automobiles and Other Power Vehicles.....	4,903	173	409	2,730	929	552	110
Automobiles and motor trucks.....	4,657	115	379	2,648	500	537	78
Collisions, skidding.....	127	.....	3	66	44	11	.....
Collisions, breaking of parts.....	21	.....	1	12	6	.....	.....
Collisions with cars and engines.....	53	.....	4	44	4	1	.....
Collisions with other vehicles and objects.....	852	11	39	484	260	46	22
Overtaking, skidding or ditching.....	96	1	7	41	39	6	2

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
VEHICLES—Concluded							
Automobiles, Other Power Vehicles—Conclu.							
Overturning, breaking of parts.	21			13	3		
Overturning, all other.	72	1	5	45	16	4	1
Struck by or caught between.	731	22	90	299	218	91	11
Cranking.	514	7	21	348	42	96	6
Engines.	55			14	2	19	
Breaking of car or part.	9		1	7	1		
Falls from.	1,081	35	98	721	126	78	23
Objects falling from.	122	7	23	70	13	7	3
Objects shifting on load.	34	3	10	17	4		
Mechanical unloading.	44	2	11	18	6	5	2
Wrecking cars.	8			5		3	
Other and indefinite.	837	23	66	450	121	168	9
Power, plant and platform trucks.	70	37	1	27	1	1	
Tractors.	143	21	28	46	14	2	32
Railroad hand cars.	2			2			
Motorcycles.	31		1	7	14	9	
Bicycles.	79	1		1	75	2	
Airplanes.	13			9	4		
Animal Drawn Vehicles, Except Mine Cars.	257	15	5	157	12	5	30
Collisions with other vehicles.	1			2			
Collisions with other objects.	1			1			
Overturning.	30	2		22	2	1	3
Whiffletrees.	3	1		2			
Falls from vehicles.	125	1	3	83	4	3	21
Struck by or caught between vehicles.	13	2	1	8	2		
Objects falling from vehicles.	6	3		2	1		
Objects shifting on load.	7	1		6			
Breaking of vehicle or part.	10	2	1	4	1		
Sudden start or stop.	51			44	2	1	4
Other and indefinite.	9	1		8			
Animal Drawn Implements, Not Machinery.	7	1		2	3		1
Water Craft.	14		8	2	1	2	1
All Other Vehicles.	9			1	7	1	
Total—Vehicles.	5,800	254	459	3,242	1,056	595	164

EXPLOSIONS, ELECTRICITY, HEAT, ETC.

Boilers and Steam Pressure Apparatus.	74	33	4	8	25	3	1
Steam boilers.	41	17	1	4	18	1	
Steam pipes.	13	7	2	1	5		
Steam and hot water gauges.	3	2				1	
Other and indefinite.	17	7	1	3	4	1	1
Explosive Substances.	288	69	38	35	56	40	17
Blasting.	26	1	12				13
Dust, explosion.	2	2					
Gas, explosion.	67	14	2	4	45	2	
Gasoline and other petroleum products.	107	18	13	28	18	28	2
Other and indefinite explosions.	86	34	11	6	23	10	2
High Pressure Apparatus.	72	48	1	6	9	7	1
Bursting of ammonia apparatus.	1			1			
Bursting of other high pressure apparatus.	41	38		1	2		
Bursting, other and indefinite.	30	10	1	4	7	7	1
Electricity.	287	86	41	86	46	23	5
Trolley wire.	3			3			
Third rail.	11			11			

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
EXPLOSIONS, ETC.—Concluded							
Electricity—Concluded							
Transmission wire.....	44	1	12	14	5	3	1
Switchboard apparatus.....	3	2	1				
Switches, controllers and fuses.....	37	8	4	15	8	1	1
Motors and generators.....	2	2					
Transformers.....	7	4		3			
Electrical fixtures.....	1						
Electrical appliances.....	18	5	2		7	1	
Short circuits.....	114	42	1	30	19	14	
Other.....	47	14	13	10	7	3	
Conflagrations.....	29	8	3	2	15		1
Fires in buildings.....	25	7	1	2	15		
Other fires.....	4	1	2				1
Hot Substances and Flames.....	2,061	710	229	101	885	122	13
Water.....	486	162	18	19	268	15	4
Asphalt, tar, pitch, etc.....	140	36	83	1	3		
Other hot liquids.....	455	99	3	1	342	10	
Molten metal.....	185	153	19	7	3	3	
Radiant heat from incandescent metal.....	1	1					
Metal, not molten.....	9	1					
Contact with hot surfaces.....	95	34	5	3	48	5	
Oxyacetylene and electric cutting and welding.....	47	17	15	4		10	1
Flames, clothing.....	32	11	3	6	8	4	
Flames, other.....	322	83	36	32	126	40	5
Hot glass.....	4	3			1		
Ignition of gasoline, oil, etc.....	123	25	35	14	19	27	3
Hot objects, other and indefinite.....	162	77	12	11	62	5	
Total—Explosions, Electricity, Heat, Etc.	2,811	954	316	241	1,067	195	38

HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Poisonous Substances.....	278	44	73	50	65	27	19
Carbon monoxide and dioxide.....	41	4	3	19	8	6	1
Dyes and chemical preparation of same.....	2	1				1	
Poison ivy and other plants.....	117	3	57	18	20	4	15
Illuminating gas.....	15	5	2	5	2	1	
Hydrocyanic acid and cyanide gases and fumes.....	4	3			1		
Carbon bisulphide.....	1					1	
Septic infection.....	3				1		2
Other and indefinite.....	95	28	11	8	33	14	1
Corrosive Substances.....	597	234	161	32	115	34	1
Lime.....	175	13	116	1	38	7	
Cement.....	49	3	37	7	2		
Acids.....	130	90	5	9	17	9	
Alkalies.....	101	55	5	4	33	4	
Other chemicals.....	142	73	18	11	25	14	1
Irritant but not Corrosive Substances.....	23	13	2	3	1	3	1
Occupational Diseases From*	984	515	118	41	242	54	14
Anthrax.....	4	3		1			
Lead poisoning.....	69	36	27	2	3	1	
Mercury.....	3	3					
Arsenic.....	4	2	2				
Wood alcohol.....	3	2		1			
Nitro and amido derivatives of benzol.....	55	50			2	3	
Carbon bisulphide.....	1	1					
Nitrous fumes.....	1	1					
Nickel carbonyl.....	2	2					
Dope (lacquers).....	11	6		2	3		
Formaldehyde.....	3	2				1	

*See also "Poisonous Substances" and "Corrosive Substances."

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HARMFUL SUBSTANCES, ETC.—Concluded							
Occupational Diseases From*—Concluded							
Chromic acid (chrome ulcer).....	11	11					
Handling tar, pitch, etc.....	4	3			1		
Compressed air.....	5		4		1		
Carbon monoxide.....	11		3	2	3	3	
Sulphuric, hydrochloric and hydrofluoric acid	12	9	1		1		
Fumes from petroleum products (respiratory and gastro-intestinal disorders).....	9	4	1		2	2	
Continuous friction, rubbing, etc. (blisters and abrasions).....	190	86	39	17	34	9	5
Continuous vibration, pressure, etc. (bursitis and synovitis).....	68	37	6	3	17	5	
Direct contact with harmful alkalies, acids, etc. (dermatitis).....	481	237	33	10	164	30	7
All other causes.....	37	20	2	3	11		1
Total — Harmful Substances and Occu- pational Activity.....	1,882	806	374	126	423	118	35

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS

Falls on Stairs and Steps.....	2,722	357	51	272	1,664	325	13
Due to handling objects.....	350	15	22	67	201	42	3
Slipping on wet steps.....	81	15	2	9	52	2	1
Slipping on icy steps.....	80	7	2	22	45	2	2
Slipping or loss of balance (n.o.c.)†.....	1,374	207	41	119	826	174	7
Stumbling, misstepping, heel catching, etc.....	458	64	12	30	290	62	
Falling over loose objects on stairs.....	43	4	3	3	29	4	
Knocked down stairs.....	1	2			2		
Defective or broken stairs.....	66	4	8	7	45	2	
Falls on, due to hand tools slipping.....	2			1		1	
Other and indefinite.....	204	39	1	14	174	36	
Falls from Ladders.....	1,639	243	517	94	514	233	38
Breaking of ladder or parts.....	134	14	46	6	45	18	5
Slipping, twisting or fall of ladder.....	608	98	213	35	177	76	9
Knocked off ladder.....	20	3	10	2	4	1	
Falls from ladders while handling objects.....	75	12	24	4	21	14	
Slipping of foot or loss of balance.....	508	74	140	36	169	78	11
Falling in getting on or off.....	54	6	16	3	15	12	2
Slipping or breaking of tool.....	16	8	4	2	1	1	
Other and indefinite.....	224	28	64	11	82	33	11
Falls from Scaffolds and Stagings.....	651	49	540	26	46	14	6
Breaking or slipping of scaffold.....	247	14	197	4	23	11	3
Breaking of tackle or support.....	20		15	4	1		
Tilting of scaffold.....	1	2	4		3		
Tilting or falling of loose plank.....	24	1	21	1	1		
Defective or broken surfaces.....	16	2	13	1			
Falls from scaffolds while handling objects.....	25	4	19		2		
Slipping or loss of balance.....	153	14	120	9	11	4	2
Falling over loose objects on scaffold.....	6		6				
Knocked off scaffold.....	10	3	7				
Falling in getting on or off.....	65	3	54	2	4	1	
Slipping or breaking of tool.....	12	1	8	3			
Other and indefinite.....	94	5	76	2	8	2	1
Falls from Other Elevations.....	1,866	473	474	239	394	230	56
Benches, boxes, chairs and tables.....	590	152	52	38	225	118	5
Structures, not in erection or demolition.....	21	2	3	5	8	2	1
Cranes, derricks, elevators and hoists in erec- tion and rigging.....	3	1	1	1			
Elevated bins, pockets and tanks.....	15	0	4			1	1
Structures in erection or demolition.....	145	3	134	3	2	1	2
Temporary floors.....	1		1				
Boilers, engines and machines.....	110	75	13	3	6	8	5

* See also "Poisonous Substances" and "Corrosive Substances."

† Not otherwise classified.

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
FALLS OF WORKERS, ETC.—Concluded							
Falls from Other Elevations—Concluded							
Piles of material.....	105	39	10	23	3	25	5
Poles, trees and towers.....	81	2	9	42	12	1	15
Roofs.....	83	14	48	2	11	4	4
Runways, balconies and platforms.....	399	107	150	74	39	23	6
Loading platforms.....	53	21	1	18	1	11	1
Gangplanks.....	14	2	2	4	2	4	...
Tramways and trestles (incl. railroads).....	2	1	...	...	...	1	...
Window and wall openings.....	65	3	8	...	52	2	...
All other elevations.....	179	42	38	26	33	29	11
Falls Into Excavations, Pits and Openings	438	91	139	62	91	41	12
Bins, vats, etc., with hot or corrosive substances.....	39	32	3	1	1	2	...
Bins, pits and vats, other.....	110	26	13	27	28	15	1
Floor openings, except elevator shafts.....	147	19	51	14	37	18	8
Manholes (street, sidewalk, etc.).....	12	3	3	5	...	1	...
Quarry, from bench or face.....	1	...	...	...	1	...	...
Excavations, ditches and other openings.....	129	11	69	15	26	5	3
Falls on Level Surfaces	9,707	2,265	1,090	1,869	3,214	1,132	137
Slipping of foot.....	3,884	765	262	647	1,707	457	48
Falls due to defective surfaces.....	154	23	25	43	42	14	7
Slipping or breaking of tools or work.....	288	116	60	46	37	25	4
Stumbling over fixed objects.....	95	28	8	27	24	7	1
Falls when handling bulky objects.....	2,569	667	360	605	585	306	46
Stumbling over loose objects.....	1,100	323	167	157	317	122	14
Falls with injuries due to objects in hands.....	692	161	115	146	177	84	9
Injury or fall due to foot catching.....	133	36	23	18	33	19	4
Other and indefinite.....	792	146	70	180	292	98	6
Other and Indefinite Falls of Workers	99	22	31	11	20	12	3
Total—Falls of Workers	17,152	3,500	2,882	2,573	5,945	1,987	265
STEPPING ON AND STRIKING OBJECTS							
Stepping on Objects	567	105	222	47	90	87	13
Nails.....	476	72	215	39	63	76	11
Sharp objects, other and indefinite.....	91	36	7	5	27	11	2
Striking Objects	3,076	1,091	330	385	776	456	35
Nails.....	171	39	49	11	42	24	6
Sharp projections from walls, etc.....	306	111	45	18	80	50	2
Fixed objects.....	1,497	529	122	234	379	220	13
Fellow worker.....	66	15	5	6	30	10	...
Loose objects, and other or indefinite.....	1,036	397	109	119	245	152	14
Total—Stepping On and Striking Objects	3,643	1,199	552	435	866	543	48
FALLING OBJECTS, NOT IN HANDLING							
Collapses	106	28	36	15	7	20	...
Buildings and walls.....	27	2	20	...	4	1	...
Piles.....	61	23	5	13	2	18	...
Scaffolds and stagings.....	2	1	7	1	...	...	...
Chutes, conveyors, slides and screens.....	1	...	...	1	...	...	...
Other and indefinite.....	8	2	4	...	1	1	...
Objects Falling from Elevations	1,195	403	333	111	152	140	17
Structures not in erection or demolition.....	16	3	...	2	5	3	...
Bins and pockets.....	1	...	...	...	...	1	...
Trestles and tramways.....	1	...	...	1	...	...	...
Runways, balconies and platforms.....	5	4	1	2	...	1	...
Racks and shelves.....	64	14	1	1	20	27	1

TABLE 24—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1936

Causes of accidents	Total number of cases	Industry						
		Manufacturing	Construction	Transportation	Service	Trade	Other	
FALLING OBJECTS, ETC.—Concluded								
Objects Falling from Elevations—Concluded								
Floor openings, except elevator shafts.....	12	1	9	.....	1	1	.....
Chutes, conveyors, slides and screens.....	43	15	2	10	4	8	4	
Machines and work benches.....	295	198	22	17	24	31	3	
Piles.....	142	45	26	35	13	23	.....
Structures in erection or demolition.....	63	1	58	.....	4	.....	.....
Scaffolds and stagings.....	42	2	38	1	1	.....	.....
Other and indefinite.....	508	120	176	42	107	54	0	
Trees Falling.....	63	23	13	4	10	.....	13
Objects Tipping Over.....	342	142	41	43	73	42	1	
Objects Falling into Excavations.....								
Ditches and trenches.....	75	1	59	7	7	1	.....
Other and indefinite.....	51	.....	45	4	2	.....	.....
24	1	14	3	5	1	.....	.....
Cave-ins.....	139	4	103	11	16	.....	5
Ditches and trenches.....	88	2	65	9	9	.....	3
Tunnels.....	1	.....	1	.....	.....	.....	.....
Sand banks and all other cave-ins.....	50	2	37	2	7	.....	2
Falling Objects in Mines, Quarries and Tunnels.....	48	.....	26	.....	.....	.....	28
Other Falling and Shifting Objects.....	106	42	23	16	13	6	6	
Poles.....	2	2	.....	.....	.....	.....	.....
Objects falling due to wind, etc.....	9	1	3	3	1	1	.....
Other falling and shifting objects.....	95	39	20	13	12	5	6	
Falling Objects, Handling Not Determined.....	972	333	195	160	149	122	13	
Total—Falling Objects, Not In Handling.....	3,046	876	823	367	457	340	83	
HANDLING OBJECTS								
Heavy and Bulky Objects.....								
Objects dropped while handling, carrying, etc.....	17,110	4,850	2,777	3,695	3,082	2,413	293	
Objects handled by fellow worker.....	2,926	898	626	527	465	368	42	
Objects dropped or falling while loading.....	405	109	97	73	88	32	6	
Objects dropped or falling while piling.....	1,124	215	170	556	59	110	14	
Caught between object handled and other object.....	198	99	19	40	9	27	4	
Strain in handling.....	1,468	421	332	381	149	142	43	
Objects slipping, breaking and other or indefinite.....	9,386	2,694	1,232	1,747	2,039	1,516	158	
1,603	414	301	371	273	218	26	.....
Sharp and Rough Objects.....	4,712	1,605	469	412	1,456	713	57	
Glass.....	821	199	42	61	420	90	3	
Nails.....	341	120	52	49	40	77	8	
Wire and metal straps.....	460	168	61	68	60	95	8	
Sheet metal and sheet metal objects.....	515	226	64	43	121	58	3	
Wood slivers.....	538	190	103	73	86	81	5	
Metal slivers.....	389	146	53	22	126	41	1	
Castings.....	10	9	.....	.....	.....	1	.....
Bones.....	138	13	.....	6	40	79	.....
Pins and sharp objects, other and indefinite.....	1,500	534	94	90	563	185	34	
Hand Trucks, Carts and Wheelbarrows.....	1,015	453	97	232	83	147	3	
Struck by truck in handling.....	291	129	24	59	20	47	2	
Struck by truck handled by fellow worker.....	86	42	5	18	14	7	.....
Caught between truck and other object.....	125	58	8	26	8	25	.....
Objects falling from truck, not in handling.....	164	66	18	43	16	21	.....
OVERTURNING.....	87	42	21	12	7	5	.....
Running over hands or feet.....	187	79	12	48	13	34	1	
Other and indefinite.....	75	37	9	16	5	8	.....
Continued Wear from Handling and Friction Burns.....	167	75	40	12	22	13	5	
Total—Handling Objects.....	23,004	6,983	3,383	4,351	4,643	3,286	358	

TABLE 24—(Concluded)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1936

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HAND TOOLS							
In Hands of Injured Worker	4,532	1,436	764	432	874	946	86
Glancing and slipping of tool in use	3,762	1,230	518	353	759	838	64
Breaking and coming apart of tool	97	39	18	9	14	16	1
Flying pieces set in motion by tool	564	126	214	64	68	74	18
<i>Nails and spikes</i>	39	9	15	6	3	6	—
<i>Metal chips</i>	260	67	86	37	15	48	7
<i>Stone</i>	116	9	82	5	11	8	6
<i>Other and indefinite</i>	149	41	31	16	39	17	5
Tools in hands of injured worker, other and indefinite	109	41	14	6	33	12	3
In Hands of Fellow Worker	364	78	131	64	53	26	12
Glancing and slipping of tool in use	300	56	110	52	49	24	9
Breaking and coming apart of tool	9	2	4	1	—	—	2
Flying pieces set in motion by tool	48	14	16	11	4	2	1
<i>Nails and spikes</i>	4	3	—	—	—	1	—
<i>Metal chips</i>	27	9	8	4	1	1	—
<i>Stone</i>	8	—	5	1	1	—	1
<i>Other and indefinite</i>	13	2	3	6	2	—	—
Tools in hands of fellow worker, other and indefinite	7	6	1	—	—	—	—
Total — Hand Tools	4,896	1,514	895	496	927	966	98
ANIMALS							
Draft Animals	250	13	2	169	18	11	37
Kicked and stepped on by animals	127	9	—	81	8	8	21
Bites	2	—	—	2	—	—	—
Runaways	41	1	1	26	2	3	8
Other and indefinite	80	3	1	60	8	—	8
Other Animals	140	16	9	18	55	11	31
Total — Animals	390	29	11	187	73	22	68
MISCELLANEOUS							
Miscellaneous	3,151	599	327	540	1,243	396	46
Flying particles and objects, not from machines and hand tools	882	246	134	169	188	125	20
Doors, windows, covers and gates	913	191	47	81	453	138	3
Drenching, not drowning	9	1	3	2	3	—	—
Heat prostration and sunstroke	45	16	13	7	4	2	3
Cold, including frostbite	260	20	39	82	101	15	3
Lightning	1	—	1	—	—	—	—
Violence of fellow worker	54	16	5	4	25	4	—
Violence, all other	552	17	13	124	355	42	1
Wrestling, sparring, chasing and horseplay	17	3	—	3	8	2	1
Compressed air, not explosions	24	3	8	3	1	6	3
Miscellaneous accidents, other	165	30	23	28	55	27	2
Injuries due to position assumed	212	53	40	37	41	32	9
Swallowing objects	5	2	1	—	1	—	—
Accidental discharge of firearms	12	1	—	—	8	2	1
Total — Miscellaneous	3,151	599	327	540	1,243	396	46
INDEFINITE HISTORY OF ACCIDENT							
Indefinite History of Accident	151	45	20	18	45	16	6
Grand Total — All Accidents	75,458	23,488	10,939	12,906	17,676	9,104	1,345

TABLE 25
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS							
Prime Movers.....	82	16	56	7	11	7	5
Steam engines.....	1	1					
Gasoline engines.....	59	10	29	7	2	6	5
Electric motors and dynamos.....	22	5	7		9	1	
Power Transmission Apparatus.....	311	255	19	6	5	7	19
Shafts.....	33	29	2	1			1
Set screws, keys and bolts.....	1	1					
Belts and pulleys.....	170	137	9	2	4	8	12
Chains and sprockets.....	24	22	1	1			
Ropes, cables and drums.....	14	6	2	1			5
Cogs, cams, gears and friction wheels.....	66	58	5	1		1	1
Clutches.....	2	2					
Ratchets.....	1				1		
POWER WORKING MACHINES							
Stone, Clay and Glass Products Machines.....	55	50	1				2
Brick and tile making machines.....	2	2					
Cement making machines.....	10	9					
Glass making machines.....	24	24					
Pottery making machines.....	2	2					
Emery and carbondum making machines.....	2	2					
Stone and ore crushers and grinders.....	6	3	1				2
Stone working machines.....	10	8	2				
Metal Working Machines.....	2,881	2,456	158	78	41	143	5
Abrasives wheels.....	292	236	12	12	13	19	
Bending and straightening machines.....	66	57	6		1	2	
Pipe cutting and threading machines.....	24	15	7	2			
Boring machines.....	8	7			1		
Drills.....	99	90	1	3	2	1	
Milling and gear cutting machines.....	85	83				2	
Hammers and forging machines.....	61	57	1	3			
Lathes and automatic screw machines.....	181	162	6	7	2	3	1
Cleaning mills, tumblers, etc.....	9	9					
Molding machines.....	40	40					
Planers and shapers.....	27	27					
Polishers and buffers.....	171	160	2	1	3	5	
Portable power tools.....	334	130	108	43	18	32	3
Power presses.....	820	808	3	2		6	1
Hand and foot presses.....	155	154				1	
Rolling and blooming mills.....	31	31					
Metal saws.....	79	77				2	
Metal shears and cutting machines.....	202	126	8	2	1	65	
Welding and heat cutting machines.....	9	7				2	
Wire working machines.....	55	54	1				
Cable making machines.....	1	1					
Wire and tube drawing machines.....	18	18					
Hydraulic, pneumatic and screw presses.....	6	4		1			
Automatic can making machines.....	1	1					
Metal working machines, other and indefinite	107	102	3	2			
Wood Working Machines.....	1,045	850	77	13	5	59	14
Boring machines and drills.....	21	21					
Cork working machines.....	11	11					
Lathes.....	17	14		1	2		
Mortising machines.....	4	4					
Nailing machines.....	5	5					
Tenoning, planing and molding machines.....	170	129	19	5	12	5	
Presses (wood working).....	9	9					
Sanding machines.....	14	13				1	
Band, scroll and jig saws.....	50	41	5	1	1		2
Circular, universal and table saws.....	583	444	52	6	36	33	12
Shapers.....	100	98	1		1		
Veneering machines.....	11	11					
Brush and broom making machines.....	23	23					
Wood working machines, other and indefinite	27	27					

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC. — Continued							
Leather Working Machines — Tanneries.	66	55	.....	.....	.....	.....	.....
Buffing drums.	2	2	.....	.....	.....	.....	.....
Other drums and paddle vats.	1	1	.....	.....	.....	.....	.....
Fur working machines.	9	9	.....	.....	.....	.....	.....
Fleshing, skinning and shaving machines	13	13	.....	.....	.....	.....	.....
Rolling, felting and glazing jacks.	15	15	.....	.....	.....	.....	.....
Pressing and baling machines.	2	2	.....	.....	.....	.....	.....
Hair washing and drying machines.	2	2	.....	.....	.....	.....	.....
Setting up and setting out machines.	3	3	.....	.....	.....	.....	.....
Splitting machines.	5	5	.....	.....	.....	.....	.....
Unhairing machines.	2	2	.....	.....	.....	.....	.....
Other and indefinite.	12	12	.....	.....	.....	.....	.....
Leather Products Machines.	276	274	.....	.....	1	1	.....
Cutting, skinning and slitting machines.	73	72	.....	.....	.....	.....	.....
Punching and pressing machines.	82	82	.....	.....	.....	.....	.....
Sewing machines.	31	31	.....	.....	.....	.....	.....
Buffing machines.	8	8	.....	.....	.....	.....	.....
Other shoe making machines.	72	71	.....	.....	1	.....	.....
Other and indefinite.	10	10	.....	.....	.....	.....	.....
Paper Making Machines.	132	131	.....	.....	.....	.....	1
Barkers, chippers, splitters and grinders.	11	11	.....	.....	.....	.....	.....
Wet machines and presses.	2	2	.....	.....	.....	.....	.....
Screens.	1	1	.....	.....	.....	.....	.....
Paper machines.	54	54	.....	.....	.....	.....	.....
Rolls and winders.	34	33	.....	.....	.....	.....	1
Cutters and slitters.	13	13	.....	.....	.....	.....	.....
Paper coating machines.	10	10	.....	.....	.....	.....	.....
Other and indefinite.	7	7	.....	.....	.....	.....	.....
Paper Products Machines.	339	304	1	4	4	26	.....
Paper cup machines.	20	20	.....	.....	.....	.....	.....
Tube machines.	1	1	.....	.....	.....	.....	.....
Automatic box making machines.	39	39	.....	.....	.....	.....	.....
Covering machines.	17	17	.....	.....	.....	.....	.....
Cutting and punching machines.	109	105	1	.....	1	2	.....
Paper balers.	45	17	.....	.....	3	21	.....
Doming and ending machines.	5	5	.....	.....	.....	.....	.....
Corner staying machines.	5	5	.....	.....	.....	.....	.....
Bag and envelope making machines.	21	21	.....	.....	.....	.....	.....
Embossing rolls and calenders.	5	5	.....	.....	.....	.....	.....
Creasing and folding machines.	10	10	.....	.....	.....	2	.....
Embossing presses.	23	21	.....	.....	.....	1	.....
Other and indefinite.	39	38	.....	.....	.....	.....	.....
Printing and Bookbinding Machines.	373	370	1	.....	2	.....	.....
Composing machines.	34	34	.....	.....	.....	.....	.....
Gathering machines.	1	1	.....	.....	.....	.....	.....
Printing presses.	235	233	1	.....	1	.....	.....
Binding presses.	1	1	.....	.....	.....	.....	.....
Sewing and stitching machines.	59	59	.....	.....	.....	.....	.....
Other printing machines.	20	19	.....	.....	1	.....	.....
Other bookbinding machines.	23	23	.....	.....	.....	.....	.....
Textile Machines.	1,203	1,181	1	.....	6	15	.....
Washers.	1	1	.....	.....	.....	.....	.....
Opening and cleaning machines.	19	19	.....	.....	.....	.....	.....
Carding and combing machines.	56	56	.....	.....	.....	.....	.....
Spinning machines.	35	35	.....	.....	.....	.....	.....
Weaving machines.	47	47	.....	.....	.....	.....	.....
Dyeing, finishing and printing machines.	35	35	.....	.....	.....	.....	.....
Shearing machines.	2	2	.....	.....	.....	.....	.....
Braiding, knitting and lace making machines.	49	48	.....	.....	1	.....	.....
Rope making machines.	12	12	.....	.....	.....	.....	.....
Sewing machines.	567	555	.....	.....	3	9	.....
Cloth cutting and stamping machines.	286	278	1	.....	2	5	.....
Hat making machines.	33	33	.....	.....	.....	.....	.....
Coating and inlaying machines.	5	5	.....	.....	.....	.....	.....
Winders, doublers and quillers.	33	32	.....	.....	.....	1	.....
Textile machines, other and indefinite.	23	23	.....	.....	.....	.....	.....

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Continued							
Laundry Machines.....	315	283	1	.....	29	2	.....
Centrifugal extractors.....	8	8	.....	.....	.....	.....	.....
Carpet cleaners and tumblers.....	10	10	.....	.....	7	1	.....
Ironing machines.....	223	215	.....	1	6	1	.....
Washing machines.....	34	26	1	.....	16	.....	.....
Wringers and other or indefinite.....	40	24	.....	.....	.....	.....	.....
Food Products Machines.....	550	415	1	3	250	180	1
Cleaning, preparing and sorting machines.....	11	9	.....	.....	1	1	.....
Milling and grinding machines.....	19	13	.....	.....	1	5	.....
Mixing machines and kettles.....	70	64	.....	.....	4	2	.....
Cookers and ovens.....	3	3	.....	.....	3	3	.....
Shaping and forming machines.....	99	93	.....	.....	3	3	.....
Cutting and chopping machines.....	410	48	1	2	194	165	.....
Candy making machines.....	28	28	.....	.....	.....	.....	.....
Ice crushers and cutting machines.....	48	12	.....	1	33	2	.....
Packing machines, all kinds.....	56	55	.....	.....	.....	.....	.....
Bottling machines.....	43	43	.....	.....	.....	.....	.....
Tobacco working machines.....	4	4	.....	.....	.....	.....	.....
Stamping presses.....	1	1	.....	.....	.....	.....	.....
Centrifugal extractors and separators.....	1	1	.....	.....	.....	.....	.....
Dishwashing and cleaning machines.....	18	6	.....	.....	11	.....	1
Roasting and drying machines.....	4	4	.....	.....	.....	.....	.....
Food products machines, other and indefinite.....	35	31	.....	.....	3	1	.....
Farm Machines.....	24	.....	.....	1	5	1	17
Feed and ensilage cutting machines.....	1	.....	.....	.....	.....	.....	1
Harvesters and mowers.....	11	.....	.....	1	4	1	5
Threshers.....	2	.....	.....	.....	.....	.....	2
Hay presses and balers.....	1	.....	.....	.....	.....	.....	1
Shelling machines.....	2	.....	.....	.....	.....	.....	2
Plows.....	7	.....	.....	.....	1	.....	6
Construction Machines.....	414	7	324	26	23	4	30
Concrete mixers.....	84	5	66	4	5	3	1
Rock drills.....	60	1	43	1	1	.....	14
Pile drivers.....	20	.....	19	.....	1	.....	.....
Road rollers and graders.....	61	.....	51	2	8	.....	.....
Well drills.....	14	.....	12	.....	.....	.....	1
Trench and ditch digging machines.....	4	.....	4	.....	.....	.....	.....
Power shovels and dredging machines.....	104	1	80	8	3	1	11
Construction machines, other and indefinite.....	67	.....	49	11	5	.....	2
Chemical Products Machines.....	42	40	1	.....	1	.....	.....
Grinding machines.....	4	4	.....	.....	.....	.....	.....
Agitating mixers, vats and kettles.....	4	3	.....	.....	1	.....	.....
Machines of recovery, such as screens, etc.....	1	1	.....	.....	.....	.....	.....
Crushers.....	3	3	.....	.....	.....	.....	.....
Centrifugal extractors.....	1	1	.....	.....	.....	.....	.....
Soap stamping presses, power.....	5	5	.....	.....	.....	.....	.....
Soap stamping presses, hand or foot.....	4	4	.....	.....	.....	.....	.....
Soap grinders.....	1	.....	1	.....	.....	.....	.....
Packing machines, all kinds.....	9	9	.....	.....	.....	.....	.....
Tablet presses and pill making machines.....	4	4	.....	.....	.....	.....	.....
Other and indefinite.....	6	6	.....	.....	.....	.....	.....
Paints, Varnishes, Inks and Dyes Machines.....	16	16	.....	.....	.....	.....	.....
Paint and pony mixers.....	3	3	.....	.....	.....	.....	.....
Grinding machines.....	1	1	.....	.....	.....	.....	.....
Crushers.....	1	1	.....	.....	.....	.....	.....
Other and indefinite.....	11	11	.....	.....	.....	.....	.....
Rubber, Celluloid and Composition Goods Machines.....	185	183	.....	1	.....	1	.....
Calenders.....	9	9	.....	.....	.....	.....	.....
Tire making machines.....	2	2	.....	.....	.....	.....	.....
Cutting and slitting machines and saws.....	31	30	.....	.....	.....	.....	.....
Hand and foot presses.....	34	34	.....	.....	.....	.....	.....
Covering machines, insulated wire.....	4	4	.....	.....	.....	.....	.....

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Concluded							
Rubber, Celluloid and Composition Goods Machines —Concluded							
Punching and pressing machines.....	43	43	.....	.....	.....	.....	.....
Cutting and punching machines, guillotine.....	2	2	.....	.....	.....	.....	.....
Comb cutting machines.....	3	3	.....	.....	.....	.....	.....
Drills and lathes.....	22	22	.....	.....	.....	.....	.....
Grinding, washing and milling machines.....	4	4	.....	.....	.....	.....	.....
Other and indefinite.....	31	30	.....	.....	1	.....	.....
Mining and Ore Refining Machines	2	.....	.....	.....	.....	.....	2
Miscellaneous Machines	38	4	.....	1	28	4	1
Office machines.....	29	.....	.....	.....	27	2	.....
Spraying machines.....	6	3	.....	.....	1	1	1
All other.....	3	1	.....	1	.....	1	.....
Other Than Power Working Machines	301	72	77	25	80	40	7
Pumps.....	79	13	23	11	14	13	5
Fans and blowers.....	94	35	13	2	37	7	.....
Compressors.....	56	7	33	5	5	4	2
Automatic stokers.....	8	3	1	2	1	.....	.....
Machines, not otherwise classified.....	51	12	7	3	17	12	.....
Hand and foot power devices, n. o. c.*.....	12	2	.....	2	5	3	.....
Ice harvesting machines.....	1	.....	.....	.....	.....	1	.....
Total—Machinery, Prime Movers and Power Transmission Apparatus	8,950	6,973	700	164	539	471	103

HOISTING AND CONVEYING APPARATUS

Elevators, Except Construction and Sidewalk	511	119	29	37	211	114	1
Cable breaking.....	14	4	.....	1	4	5	.....
Cable unwinding.....	2	.....	.....	.....	2	.....	.....
Caught by cable.....	18	6	1	1	7	2	.....
Struck by counterweight.....	3	.....	.....	.....	3	.....	.....
Caught in or struck by machinery.....	24	3	4	.....	11	6	.....
Caught between floor and car.....	62	17	3	4	17	21	.....
Caught between cars or shaft side and car.....	46	13	2	5	14	12	.....
Caught between gate and car.....	1	1	.....	.....	.....	.....	.....
Struck by car in pit.....	2	.....	1	.....	1	.....	.....
Struck by car elsewhere.....	7	1	1	.....	3	2	.....
Sudden start or stop of car.....	11	3	.....	1	4	3	.....
Car, dumping.....	1	.....	.....	.....	.....	.....	.....
Car, rising too high.....	1	.....	.....	.....	1	.....	.....
Fall of worker into shaft from floor.....	102	16	11	4	58	19	1
Fall of worker into shaft from car.....	9	4	.....	.....	5	.....	.....
Fall of worker into or from car.....	18	5	.....	2	8	3	.....
Objects falling down shaft from floor.....	5	1	3	.....	1	.....	.....
Objects falling down shaft from car.....	2	.....	1	.....	1	.....	.....
Catching of load between car and shaft.....	1	.....	1	.....	.....	.....	.....
Gates and doors.....	139	37	8	15	53	30	.....
Fall of car, indefinite.....	20	5	3	1	4	7	.....
Elevators, other and indefinite.....	23	3	.....	2	14	4	.....
Dumb-Waiters	128	2	1	1	123	1	.....
Sidewalk Elevators	43	2	1	8	23	8	1
Construction Hoists and Elevators	13	.....	13	.....	.....	.....	.....
Mine Cages, Skips and Buckets	4	.....	.....	.....	.....	.....	4
Locomotive Cranes	5	1	1	2	.....	.....	1
Fall of car.....	2	1	.....	1	.....	.....	.....
Caught in machinery.....	1	.....	.....	.....	.....	.....	1
Caught or struck by swinging load.....	1	.....	.....	1	.....	.....	.....
Other and indefinite.....	1	.....	1	.....	.....	.....	.....

* Not otherwise classified.

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HOISTING, ETC.—Continued							
Gantry and Traveling Cranes.....	297	186	58	31	.....	17	5
Caught or struck by car.....	17	9	3	2	.....	3	.....
Fall of car.....	7	1	3	1	.....	2	.....
Caught or struck by cable or chain.....	29	15	10	3	.....	1	.....
Caught in machinery.....	15	3	4	3	.....	3	2
Caught or struck by hook or sling.....	77	49	18	5	.....	1	.....
Caught or struck by swinging load.....	40	26	7	5	.....	2	1
Struck by load, lowering or raising.....	21	19	1	1	.....	.....	.....
Load falling, breaking of cable or chain.....	6	5	.....	1	.....	.....	.....
Load falling, slipping of cable.....	6	3	.....	3	.....	.....	.....
Load falling, breaking of hook.....	2	2	.....	2	.....	.....	.....
Load falling, slipping of hook.....	24	22	.....	2	.....	.....	.....
Load falling, breaking of sling.....	1	1	.....	.....	.....	.....	.....
Load falling, slipping of hitch.....	7	7	.....	.....	.....	.....	.....
Load falling, failure of current on magnet.....	3	1	.....	.....	.....	2	.....
Objects falling from load or bucket.....	28	17	0	3	.....	2	.....
Falls from cranes or crane track, not in erection or rigging.....	.....	2	2	2	.....	.....	.....
Other and indefinite.....	8	4	1	.....	.....	.....	.....
Derricks and Jib Cranes.....	218	25	108	60	6	9	10
Struck by derrick or crane.....	7	1	5	1	.....	.....	.....
Fall of derrick or crane.....	4	.....	3	.....	1	.....	2
Caught or struck by cable or chain.....	17	2	10	3	.....	.....	1
Caught in machinery.....	9	1	6	1	.....	1	1
Caught or struck by hook or sling.....	52	7	34	9	.....	1	.....
Boom swinging.....	15	.....	11	2	2	.....	.....
Boom or mast breaking.....	4	.....	4	.....	.....	.....	.....
Struck by swinging load.....	36	4	11	18	1	1	1
Struck by load, lowering or raising.....	20	2	6	9	.....	2	1
Load falling, slipping of cable or hook.....	6	2	3	.....	1	.....	1
Load falling, breaking of cable or hook.....	2	1	.....	.....	.....	.....	1
Load falling, breaking of sling.....	1	.....	.....	1	.....	.....	.....
Load falling, breaking of machinery.....	1	.....	1	.....	.....	.....	.....
Load falling, slipping of hitch.....	1	.....	1	.....	.....	2	.....
Load falling, other and indefinite.....	2	1	.....	1	.....	2	1
Objects falling from load.....	25	3	6	12	1	2	1
Falls from crane load.....	1	.....	.....	1	.....	.....	.....
Falls from derrick, crane cab or track, not in erecting or rigging.....	6	.....	3	2	.....	.....	1
Other and indefinite.....	9	1	4	.....	.....	3	1
Wood Stackers.....	1	1	.....	.....	.....	.....	.....
Blocks and Tackles, Winches, Hand Hoists, Etc.....	238	73	88	35	18	17	7
Objects falling from.....	60	14	29	8	3	6	4
Caught in or struck by.....	95	27	27	18	12	7	2
Struck by load.....	16	5	8	.....	1	2	2
Rope or cable breaking or slipping.....	47	21	17	5	1	1	.....
Other and indefinite.....	20	6	7	4	1	1	1
Unloading Machines.....	10	9	.....	.....	.....	1	.....
Air Hoists.....	6	5	1	.....	.....	.....	.....
Overhead Trolleys.....	29	20	.....	1	.....	7	1
Belt and Chain Conveyors.....	64	50	2	6	.....	3	3
Screen Conveyors.....	1	.....	.....	.....	.....	1	.....
Bucket Conveyors.....	59	9	21	7	.....	16	6
Platform Conveyors and Escalators.....	15	6	.....	5	4	.....	.....
Charging Machines.....	6	6	.....	.....	.....	.....	.....

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HOISTING, ETC.—Concluded							
Hoists and Skips for Blast Furnaces, Etc.	9	1	1	1	....	1	5
Worm or Screw Conveyors.	6	3	2	....	....	1	....
Hoists and Conveyors, Other and Indefinite.	94	40	16	12	5	13	8
Total—Hoisting and Conveying Apparatus	1,757	558	342	266	390	209	52
VEHICLES							
Steam and Electric Railways.	416	64	11	288	21	28	4
Train wrecks.	21	....	....	20	1	....	....
Collisions.	15	....	....	14	1	....	....
Derailments.	5	....	....	5	....	....	....
Car striking objects on track, not derailing.	1	....	....	1	....	....	....
Falls from trains.	176	38	6	107	9	14	2
Getting on or off, in motion.	3	....	....	1	2	....	....
Getting on or off, at rest.	68	6	....	55	4	3	....
Riding, sudden start or stop.	2	....	....	2	....	....	....
Riding, slipping or loss of balance.	5	....	....	5	....	....	....
Riding, contact with fixed structure.	2	....	....	2	....	....	....
Falls from loading and indefinite.	96	32	6	42	3	11	2
Falls on board.	34	2	1	24	3	4	....
Sudden start or stop.	3	....	....	3	....	....	....
Slipping or loss of balance.	17	1	....	12	1	3	....
Other and indefinite.	14	1	1	9	2	1	....
Striking against objects while on board.	2	....	....	2	....	....	....
Fixed structures.	1	....	....	1	....	....	....
Other objects.	1	....	....	1	....	....	....
Caught between cars.	19	5	....	13	....	1	....
While coupling or uncoupling.	10	3	....	7	....	....	....
Other and indefinite.	9	2	....	6	....	....	....
Struck by trains.	57	5	3	46	3	....	....
While repairing track.	1	....	....	1	....	....	....
While crossing track.	12	1	1	9	1	....	....
Working or walking on or near track.	27	2	1	24	....	....	....
Other and indefinite.	17	2	1	12	2	....	....
Other causes.	107	14	1	76	5	1	2
Handling brakes.	6	....	....	5	....	1	....
Objects falling from cars, not in loading.	6	2	....	3	....	1	....
All other causes.	95	12	1	68	5	8	1
Mine and Quarry Cars and Motors.	69	....	49	....	....	....	20
Plant Trucks, Cars and Motors on Trucks.	45	41	....	2	....	1	1
Contractors' Cars and Engines.	1	....	1	....	....	....	....
Automobiles and Other Power Vehicles.	4,791	230	407	2,682	845	522	101
Automobiles and motor trucks.	4,451	133	373	2,570	817	493	65
Collisions, skidding.	115	2	5	52	49	5	2
Collisions, breaking of parts.	26	....	1	13	10	....	....
Collisions with cars and engines.	51	4	....	53	7	2	....
Collisions with other vehicles and objects.	797	11	53	459	289	47	8
Overshooting, skidding or ditching.	75	....	1	34	38	2	....
Overshooting, breaking of parts.	25	....	3	15	9	1	....
Overshooting, all other.	86	....	7	57	16	4	....
Struck by or caught between.	712	31	94	271	222	87	7
Cranking.	410	11	21	279	25	64	10
Engines.	36	2	....	9	....	75	....

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1937

Causes of accidents	Total number of cases	Industry						
		Manufacturing	Construction	Transportation	Service	Trade	Other	
VEHICLES — Concluded								
Automobiles and Other Power Vehicles — Concluded								
Breaking of car or part.....	7	.....	1	6	.....	.....	.....
Falls from.....	1,136	42	105	781	110	69	29	
Objects falling from.....	123	6	28	72	5	12	.....
Objects shifting on load.....	35	2	14	15	1	5	.....
Mechanical unloading.....	42	1	10	29	.....	.....	.....
Wrecking cars.....	12	1	1	4	.....	.....	.....
Other and indefinite.....	760	20	49	436	84	164	7	
Power, plant and platform trucks.....	104	51	1	31	2	6	.....
Tractors.....	173	33	31	55	9	2	36	
Railroad hand cars.....	8	.....	1	6	.....	1	.....
Motorcycles.....	55	.....	1	20	21	13	.....
Bicycles.....	86	.....	.....	1	84	1	.....
Airplanes.....	8	1	.....	4	1	.....	.....
Animal Drawn Vehicles, Except Mine Cars								
Collisions with cars or engines.....	200	22	3	143	5	1	26	
Collisions with other objects.....	1	.....	.....	1	.....	.....	.....
Overturning.....	2	.....	.....	2	.....	.....	.....
Whiffletrees.....	17	3	.....	11	2	.....	1
Falls from vehicles.....	17	3	.....	1	.....	.....	.....
Struck by or caught between vehicles.....	98	7	.....	72	1	1	15
Objects falling from vehicles.....	17	3	.....	11	1	2	.....
Objects shifting on load.....	3	.....	.....	2	.....	.....	1
Breaking of vehicle or part.....	2	.....	.....	8	.....	.....	1
Mechanical unloading.....	2	.....	.....	1	1	.....	.....
Sudden start or stop.....	35	2	1	29	.....	.....	3
Other and indefinite.....	10	2	.....	5	.....	.....	3
Animal Drawn Implements, Not Machinery								
Water Craft.....	9	1	4	2	.....	1	1
All Other Vehicles.....	14	.....	8	2	3	.....	1
Total — Vehicles.....	5,646	359	483	3,124	972	554	154	

EXPLOSIONS, ELECTRICITY, HEAT, ETC.

Boilers and Steam Pressure Apparatus.....	92	45	9	3	32	3	.....
Steam boilers.....	47	17	7	2	18	3	.....
Steam pipes.....	19	13	2	.....	4	.....	.....
Steam and hot water gauges.....	1	1	.....	.....	.....	.....	.....
Other and indefinite.....	25	14	.....	1	10	.....	.....
Explosive Substances							
Explosives, manufacturing and storing.....	351	74	66	48	97	53	13
Explosives, transporting and handling.....	2	2	.....	.....	.....	.....	.....
Blasting.....	2	1	17	1	1	.....	6
Dust, explosion.....	26	1	.....	.....	1	.....	.....
Gas, explosion.....	2	1	.....	.....	1	.....	.....
Gasoline and other petroleum products.....	88	13	9	11	49	5	1
Other and indefinite explosions.....	113	16	25	30	18	22	2
Other and indefinite.....	118	40	15	5	28	36	4
High Pressure Apparatus							
Bursting of ammonia apparatus.....	105	63	1	14	21	5	1
Bursting of other high pressure apparatus.....	2	1	.....	.....	1	.....	1
Bursting, other and indefinite.....	47	43	.....	14	17	5	.....
Electricity							
Trolley wire.....	323	111	43	95	54	14	6
Third rail.....	4	.....	.....	4	.....	.....	.....
Transmission wire.....	7	1	.....	6	.....	1	1
Switchboard apparatus.....	49	10	11	24	2	1	1

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
EXPLOSIONS — Concluded							
Electricity —Concluded							
Switches, controllers and fuses.....	59	23	6	19	7	2	2
Motors and generators.....	3	1	1	1	.....	.....	.....
Electrical fixtures.....	22	9	2	1	6	2	2
Electrical appliances.....	40	20	3	.....	12	4	1
Short circuits.....	86	29	9	31	14	3	.....
Other.....	50	16	11	9	12	2	.....
Confagurations	32	10	4	2	9	5	2
Fires in buildings.....	31	10	4	2	9	5	1
Other fires.....	1	.....	.....	.....	.....	.....	.....
Hot Substances and Flames	2,192	838	256	113	860	114	11
Water.....	489	188	11	29	238	22	1
Asphalt, tar, pitch, etc.....	165	48	101	5	8	3	.....
Other hot liquids.....	443	92	6	3	334	8	.....
Molten metal.....	240	200	28	5	3	4	.....
Radiant heat from incandescent metal.....	2	2	.....	.....	.....	.....	.....
Metal, not molten.....	9	6	1	2	.....	.....	.....
Contact with hot surfaces.....	109	58	7	4	34	6	.....
Oxyacetylene and electric cutting and welding.....	43	17	12	4	2	4	4
Flames, clothing.....	59	16	11	5	17	10	.....
Flames, other.....	325	92	46	29	135	22	1
Hot glass.....	2	1	1	.....	.....	.....	.....
Ignition of gasoline, oil, etc.....	125	31	23	19	16	24	2
Hot objects, other and indefinite.....	181	87	9	8	73	1	3
Total — Explosions, Electricity, Heat, Etc.	3,095	1,141	379	275	1,073	194	33

HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY

Poisonous Substances	240	53	75	31	56	16	9
Carbon monoxide and dioxide.....	40	11	5	12	4	8	.....
Poison ivy and other plants.....	97	0	52	11	18	2	8
Illuminating gas.....	13	5	1	2	5	.....	.....
Hydrocyanic acid and cyanide gases and fumes.....	1	1	.....	.....	.....	.....	.....
Septic infection.....	0	2	1	.....	6	.....	.....
Other and indefinite.....	80	28	16	6	23	6	1
Corrosive Substances	680	245	256	33	101	37	6
Lime.....	218	15	155	2	38	5	3
Cement.....	72	3	66	3	.....	.....	.....
Acids.....	157	100	13	6	24	13	1
Alkalies.....	97	65	0	5	15	5	1
Other chemicals.....	136	62	16	17	26	14	1
Irritant But Not Corrosive Substances	19	11	2	1	3	2	.....
Occupational Diseases From *	1,414	715	151	53	385	97	13
Anthrax.....	9	0	.....	.....	.....	.....	.....
Lead poisoning.....	59	40	10	2	3	4	.....
Mercury.....	7	6	1	.....	.....	.....	.....
Wood alcohol.....	5	6	.....	.....	.....	.....	.....
Nitro and amido derivatives of benzol.....	54	51	1	.....	.....	2	.....
Carbon bisulphide.....	3	3	.....	.....	.....	.....	.....
Nitrous fumes.....	1	1	.....	.....	.....	.....	.....
Nickel carbonyl.....	3	3	.....	.....	.....	.....	.....
Dope (lacquers).....	7	3	1	1	1	1	1
Formaldehyde.....	7	6	.....	.....	1	.....	.....
Chromic acid (chrome ulcer).....	12	11	.....	.....	1	.....	2
Handling tar, pitch, etc.....	3	.....	.....	.....	1	.....	.....

* See also "Poisonous Substances" and "Corrosive Substances".

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HARMFUL SUBSTANCES, ETC.—Concluded							
Occupational Diseases From*—Concluded							
Carbon monoxide.....	5	2	1	1	1	3	...
Sulphuric, hydrochloric and hydrofluoric acid.....	5	2	1	...	...	2	...
Fumes from petroleum products (respiratory and gastro-intestinal disorders).....	3	...	...	1	2	...	...
Continuous friction, rubbing, etc. (blisters and abrasions).....	285	141	49	18	46	25	6
Direct contact with harmful alkalies, acids, etc.....	660	282	53	23	258	38	8
Continuous vibration, pressure, etc. (bursitis and synovitis).....	132	81	19	11	21	7	...
Silica and dust.....	13	9	4	...	...	...	...
All other causes.....	137	50	11	3	50	13	1
Total—Harmful Substances and Occupational Activity.....	2,353	1,024	484	118	547	152	28

FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS

Falls on Stairs and Steps.....	2,781	371	125	258	1,680	325	22
Due to handling objects.....	382	33	37	70	208	33	1
Slipping on wet steps.....	88	11	2	10	56	8	1
Slipping on icy steps.....	49	8	2	9	28	2	...
Slipping or loss of balance (n. o. c.) †.....	1,252	183	44	102	778	135	10
Stumbling, misstepping, heel catching, etc.....	561	48	14	42	341	92	4
Falling over loose objects on stairs.....	61	7	7	5	37	5	...
Knocked down stairs.....	3	...	...	...	1	2	...
Defective or broken stairs.....	67	7	5	4	43	7	1
Slipping or breaking of tool.....	3	1	...	1	1	...	...
Other and indefinite.....	315	53	14	15	187	41	5
Falls from Ladders.....	1,779	302	566	90	527	249	45
Breaking of ladder or parts.....	156	25	57	9	51	12	2
Slipping, twisting or fall of ladder.....	625	103	218	30	182	76	16
Knocked off ladder.....	35	4	7	5	11	7	1
Falls from ladders while handling objects.....	93	19	31	2	19	20	2
Slipping of foot or loss of balance.....	566	96	161	32	178	90	9
Falling in getting on or off.....	69	13	27	4	12	12	1
Slipping or breaking of tool.....	22	8	7	2	5	...	...
Other and indefinite.....	213	34	58	6	69	32	14
Falls from Scaffolds and Stagings.....	766	60	625	16	37	17	11
Breaking or slipping of scaffold.....	293	14	242	8	14	8	7
Breaking of tackle or support.....	34	5	23	4	...	1	1
Tilting of scaffold.....	7	...	6	...	1	...	...
Tilting or falling of loose plank.....	32	9	22	...	1	...	...
Defective or broken surfaces.....	27	4	19	...	2	1	1
Falls from scaffolds while handling objects.....	29	5	23	1	...	...	...
Slipping or loss of balance.....	171	13	145	1	8	4	...
Falling over loose objects on scaffold.....	7	1	5	...	...	...	...
Knocked off scaffold.....	12	1	11	...	...	...	...
Falling in getting on or off.....	52	1	49	...	2	...	...
Slipping or breaking of tool.....	7	2	4	1	...	...	...
Other and indefinite.....	95	5	75	1	9	3	2
Falls from Other Elevations.....	1,989	552	552	213	395	223	54
Benches, boxes, chairs and tables.....	604	192	57	32	210	109	4
Structures, not in erection or demolition.....	25	1	2	8	11	3	2
Cranes, derricks, elevators and hoists in erection or rigging.....	3	1	1	...	...	...	1
Elevated bins, pockets and tanks.....	25	13	2	1	2	7	...
Structures in erection or demolition.....	190	8	178	2	4	1	1
Temporary floors.....	2	1	1	...	...	...	...
Boilers, engines and machines.....	118	80	19	4	8	4	3
Piles of material.....	129	54	10	23	4	32	2

* See also "Poisonous Substances" and "Corrosive Substances".

† Not otherwise classified.

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry						
		Manufacturing	Construction	Transportation	Service	Trade	Other	
FALLS OF WORKERS, ETC.—Concluded								
Falls from Other Elevations — Concluded								
Poles, trees and towers.....	71	3	12	29	11	.....	16
Roofs.....	87	11	49	4	17	4	2	
Runways, balconies and platforms.....	407	103	164	67	39	28	5	
Loading platforms.....	57	25	1	16	4	10	1	
Gangplanks.....	11	3	.....	5	.....	3	.....
Tramways and trestles (including railroads).....	4	.....	1	3	.....	.....	.....
Window and wall openings.....	64	8	8	8	47	.....	.....
All other elevations.....	192	55	47	18	38	22	12	
Falls into Excavations, Pits and Openings.....								
Bins, vats, etc., with hot or corrosive substances.....	41	33	2	2	3	.....	1
Bins, pits and vats, other.....	105	23	11	27	20	23	1	
Floor openings, except elevator shafts.....	163	23	69	8	33	26	4	
Manholes (street, sidewalk, etc.).....	16	3	9	1	3	.....	3
Quarry, from bench or face.....	3	.....	.....	.....	.....	.....	0
Excavations, ditches and other openings.....	153	10	99	11	23	4	0	
Falls on Level Surfaces.....								
Slipping of foot.....	9,803	2,528	1,349	1,665	2,955	1,155	151	
3,463	772	307	467	1,458	413	46	.....
Falls due to defective surfaces.....	229	45	32	57	70	22	3	
Slipping or breaking of tools or work.....	318	131	59	48	31	35	14	
Stumbling over fixed objects.....	122	32	10	21	46	11	2	
Falls when handling bulky objects.....	2,733	797	449	555	546	346	40	
Stumbling over loose objects.....	1,239	362	245	163	301	144	24	
Falls with injuries due to objects in hands.....	786	203	158	159	167	87	12	
Injury or fall due to foot catching.....	145	39	20	25	43	17	1	
Other and indefinite.....	768	147	69	170	293	80	0	
Other and Indefinite Falls of Workers.....	99	32	24	6	25	9	3	
Total — Falls of Workers.....	17,698	3,937	3,431	2,297	5,701	2,031	301	

STEPPING ON AND STRIKING OBJECTS

Stepping on Objects.....	644	124	252	62	106	84	16
Nails.....	520	83	241	48	69	60	13
Sharp objects, other and indefinite.....	124	41	11	14	37	18	3
Striking Objects.....							
3,446	1,223	435	354	836	556	42	.....
Nails.....	174	42	48	5	43	34	2
Sharp projections from walls, etc.....	329	115	50	21	87	54	2
Fixed objects.....	1,632	570	180	211	408	244	10
Fellow worker.....	89	19	9	4	40	17	.....
Loose objects, and other or indefinite.....	1,195	471	136	111	254	205	18
Struck by object stepped on.....	27	0	12	2	4	2	1
Total — Stepping On and Striking Objects	4,090	1,347	687	416	942	640	58

FALLING OBJECTS, NOT IN HANDLING

Collapses.....	135	44	47	18	8	14	4
Buildings and walls.....	44	3	28	5	4	3	1
Piles.....	76	41	8	12	3	10	2
Scaffolds and stagings.....	6	.....	6	.....	.....	.....	.....
Chutes, conveyors, slides and screens.....	1	.....	.....	1	.....	.....	.....
Other and indefinite.....	8	.....	5	.....	1	1	1
Objects Falling from Elevations.....	1,321	489	345	126	181	168	12
Structures not in erection or demolition.....	13	.....	.....	8	7	.....	.....
Trestles and tramways.....	1	.....	1	.....	.....	.....	.....
Runways, balconies and platforms.....	13	5	3	4	1	.....	.....
Racks and shelves.....	88	32	1	3	24	28	.....
Floor openings, except elevator shafts.....	10	3	5	1	.....	1	.....
Chutes, conveyors, slides and screens.....	40	14	2	13	.....	10	1
Machines and work benches.....	371	252	23	20	20	47	.....

TABLE 25—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
FALLING OBJECTS, ETC.—Concluded							
Objects Falling from Elevations—Concluded							
Piles.....	180	66	31	45	9	28	1
Structures in erection or demolition.....	106	4	95	1	4	1	1
Scaffolds and stagings.....	38	1	33	1	3	.....	.....
Other and indefinite.....	461	112	151	32	104	53	9
Trees Falling.....	90	52	10	4	11	.....	13
Objects Tipping Over.....	290	119	40	25	60	11	3
Objects Falling into Excavations.....	79	1	54	4	9	1	.....
Ditches and trenches.....	50	.....	41	3	5	1	.....
Other and indefinite.....	29	1	23	1	4	.....	.....
Cave-ins.....	149	6	91	12	28	3	9
Ditches and trenches.....	93	1	62	10	13	2	1
Tunnels.....	1	.....	1	.....	.....	.....	.....
Sand banks and all other cave-ins.....	55	5	28	2	15	1	4
Falling Objects in Mines, Quarries and Tunnels.....	11	.....	44	.....	.....	.....	37
Other Falling and Shifting Objects.....	209	74	43	23	41	18	10
Objects falling due to wind, etc.....	14	3	5	1	2	2	1
Other falling and shifting objects.....	195	71	38	22	39	16	1
Falling Objects, Handling Not Determined.....	920	334	212	144	113	103	10
Total — Falling Objects, Not in Handling.....	3,274	1,123	896	366	451	340	91
HANDLING OBJECTS							
Heavy and Bulky Objects.....	18,971	5,809	3,214	3,999	3,102	2,523	324
Objects dropped while handling, carrying, etc.....	3,281	1,115	754	496	478	388	50
Objects handled by fellow worker.....	496	147	125	97	74	47	6
Objects dropped or falling while loading.....	1,273	250	218	592	49	137	27
Objects dropped or falling while piling.....	249	140	24	37	9	38	1
Caught between object handled and other object.....	1,517	498	337	386	146	121	29
Strain in handling.....	10,273	3,126	1,408	1,961	2,040	1,556	182
Objects slipping, breaking and other or indefinite.....	1,882	533	348	430	306	236	29
Sharp and Rough Objects.....	4,833	1,691	547	370	1,501	683	41
Glass.....	888	177	37	62	504	103	5
Nails.....	356	138	65	46	36	68	5
Wire and metal straps.....	479	176	74	82	51	93	3
Sheet metal and sheet metal objects.....	528	246	86	42	89	62	3
Wood slivers.....	552	193	117	45	112	79	0
Metal slivers.....	431	193	55	19	135	27	2
Castings.....	10	9	.....	.....	.....	1	.....
Bones.....	149	21	.....	2	43	83	.....
Pins and sharp objects, other and indefinite.....	1,439	540	113	71	531	167	17
In hands of fellow worker.....	1	.....	.....	1	.....	.....	.....
Hand Trucks, Carts and Wheelbarrows.....	1,225	567	106	275	103	167	7
Struck by truck in handling.....	373	167	37	90	27	50	2
Struck by truck handled by fellow worker.....	91	47	5	18	15	6	.....
Caught between truck and other object.....	157	74	10	35	15	22	1
Objects falling from truck, not in handling.....	186	71	19	57	0	28	2
Overshooting.....	117	55	12	20	14	14	2
Running over hands or feet.....	205	97	11	46	15	36	.....
Other and indefinite.....	96	56	12	9	8	11	.....
Continued Wear from Handling and Friction							
Burns.....	106	49	22	10	13	9	3
Handling Objects, Not Heavy, Bulky or Sharp							
Handling Objects, Not Heavy, Bulky or Sharp.....	58	29	1	5	13	9	1
Total — Handling Objects.....	25,193	8,145	3,890	4,659	4,732	3,391	376

TABLE 25—(Concluded)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases Closed in 1937

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HAND TOOLS							
In Hands of Injured Worker.....	4,946	1,658	920	403	936	918	111
Glancing and slipping of tool in use.....	4,013	1,396	629	303	825	779	81
Breaking and coming apart of tool.....	143	59	37	19	10	15	3
Flying pieces set in motion by tool.....	684	155	243	72	82	109	23
<i>Nails and spikes</i>	46	17	16	3	6	9	1
<i>Metal chips</i>	329	88	98	42	23	76	2
<i>Stone</i>	182	6	86	8	10	4	8
<i>Other and indefinite</i>	187	44	48	19	43	26	12
Tools in hands of injured worker, other and indefinite.....	106	48	11	0	19	15	4
In Hands of Fellow Worker.....	351	103	134	37	32	32	13
Glancing and slipping of tool in use.....	288	86	109	29	28	26	10
Breaking and coming apart of tool.....	9	4	3	—	2	—	—
Flying pieces set in motion by tool.....	49	11	22	8	2	3	3
<i>Nails and spikes</i>	3	—	2	—	—	—	—
<i>Metal chips</i>	17	7	5	2	1	2	—
<i>Stone</i>	16	—	12	2	1	—	1
<i>Other and indefinite</i>	13	4	3	4	—	1	1
Tools in hands of fellow worker, other and indefinite.....	5	2	—	—	2	1	—
Total—Hand Tools.....	5,297	1,761	1,054	440	968	950	124
ANIMALS							
Draft Animals.....	245	16	3	170	11	9	36
Kicked and stepped on by animals.....	107	10	3	64	2	5	22
Bites.....	4	—	—	3	1	—	—
Runaways.....	44	4	—	30	2	—	8
Other and indefinite.....	90	2	—	73	5	4	6
Other Animals.....	142	11	8	17	64	11	31
Total—Animals.....	387	27	11	187	75	20	67
MISCELLANEOUS							
Miscellaneous.....	3,058	635	315	496	1,178	373	61
Flying particles and objects, not from machines and hand tools.....	791	217	130	161	163	97	23
Doors, windows, covers and gates.....	969	183	55	98	490	136	7
Drenching, not drowning.....	10	1	1	2	4	1	1
Heat prostration and sunstroke.....	62	16	16	8	11	4	7
Cold, including frost bite.....	61	8	7	14	23	6	3
Lightning.....	4	—	2	2	—	—	—
Violence of fellow worker.....	70	24	4	6	31	5	—
Violence, all other.....	486	14	8	99	310	54	1
Wrestling, sparring, chasing and horseplay.....	13	3	—	1	9	—	—
Compressed air, not explosions.....	45	11	0	13	—	10	2
Cyclones, floods, earthquakes, etc.....	1	—	—	—	1	—	—
Miscellaneous accidents, other.....	151	48	16	17	51	12	4
Injuries due to position assumed.....	379	108	67	73	74	44	13
Swallowing objects.....	5	1	—	—	2	2	—
Accidental discharge of firearms.....	11	1	—	2	6	2	—
Total—Miscellaneous.....	3,058	635	315	496	1,178	373	61
INDEFINITE HISTORY OF ACCIDENT							
Indefinite History of Accident.....	131	47	13	14	31	19	7
GRAND TOTAL—ALL ACCIDENTS.....	80,929	27,077	12,685	12,762	17,599	9,344	1,462

TABLE 26
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS							
Prime Movers	126	19	59	12	13	11	11
Steam engines	4	1	2		1		
Gasoline engines	74	5	36	8	2	10	10
Electric motors and dynamos	45	8	20	4	10	2	1
Compressed air motors	1		1				
Water motors	1	1					
Prime movers, other and indefinite	1	1					
Power Transmission Apparatus	247	211	11	3	4	13	5
Shafts	18	16	1			1	
Shaft collars and couplings	1					1	
Belts and pulleys	132	115	4	2	2	7	2
Chains and sprockets	23	20	1			2	
Ropes, cables and drums	14	4	5		2	1	2
Cogs, cams, gears and friction wheels	58	56				1	1
Clutches	1			1			
POWER WORKING MACHINES							
Stone, Clay and Glass Products Machines	52	48	1				3
Brick and tile making machines	8	8					
Cement making machines	7	7					
Glass making machines	13	13					
Pottery making machines	2	2					
Emery and carbondumum making machines	2	2					
Stone and ore crushers and grinders	7	3	1				3
Stone working machines	13	13					
Metal Working Machines	2,373	1,975	167	50	21	136	14
Abrasive wheels	285	242	11	5	4	18	5
Bending and straightening machines	67	58	5	2			1
Pipe cutting and threading machines	26	17	3	2		4	
Boring machines	7	6		1			
Drills	103	83	2	7	1	7	3
Milling and gear cutting machines	81	77	3	1			
Hammers and forging machines	40	37	2	1			
Lathes and automatic screw machines	160	154	5	13	2	5	
Cleaning mills, tumblers, etc.	7	7					
Molding machines	30	30					
Planers and shapers	17	15	1	1			
Polishers and buffers	150	134	1		1	14	
Portable power tools	298	112	116	33	12	21	4
Power presses	572	563	3	1	1	4	
Hand and foot presses	113	111				2	
Rolling and blooming mills	16	16					
Metal saws	75	71	1			3	
Metal shears and cutting machines	169	105	9	1		54	
Welding and heat cutting machines	13	11	1	1			
Wire working machines	47	47					
Cable making machines	1	1					
Wire and tube drawing machines	9	9					
Hydraulic, pneumatic and screw presses	7	5	1	1		1	
Automatic can making machines	1	1					
Metal working machines, other and indefinite	67	61	3			2	1
Wood Working Machines	1,042	847	71	18	50	45	11
Boring machines and drills	12	12					
Cork working machines	14	14					
Lathes	20	23	1		1	1	
Mortising machines	4	3			1		
Nailing machines	6	6					
Tenoning, planing and molding machines	204	169	17	3	11	3	1
Presses (wood working)	8	8					
Sanding machines	30	29					
Band, scroll and jig saws	37	32	4		1		
Circular, universal and table saws	585	441	46	15	35	38	10
Shapers	69	65	3		1		
Veneering machines	13	13					
Brush and broom making machines	15	15					
Wood working machines, other and indefinite	19	17				2	

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Continued							
Leather Working Machines—Tanneries.	34	34	2	2	2	2	2
Buffing drums.	2	2	2	2	2	2	2
Other drums and paddle vats.	2	2	2	2	2	2	2
Fur working machines.	11	11	2	2	2	2	2
Fleshing, skinning and shaving machines.	2	2	2	2	2	2	2
Rolling, felting and glazing jacks.	8	8	8	8	8	8	8
Setting up and setting out machines.	2	2	2	2	2	2	2
Splitting machines.	2	2	2	2	2	2	2
Unhairing machines.	1	1	1	1	1	1	1
Other and indefinite.	4	4	4	4	4	4	4
Leather Products Machines.	232	228	4	4	4	4	4
Cutting, skinning and slitting machines.	56	56	2	2	2	2	2
Punching and pressing machines.	66	66	2	2	2	2	2
Sewing machines.	22	22	2	2	2	2	2
Buffing machines.	4	4	2	2	2	2	2
Other shoe making machines.	82	78	4	4	4	4	4
Other and indefinite.	2	2	2	2	2	2	2
Paper Making Machines.	124	124	1	1	1	1	1
Barkers, chippers, splitters and grinders.	9	9	1	1	1	1	1
Beaters, including rag washers.	4	4	1	1	1	1	1
Paper machines.	57	57	1	1	1	1	1
Rolls and winders.	24	24	1	1	1	1	1
Cutters and slitters.	15	15	1	1	1	1	1
Choppers.	1	1	1	1	1	1	1
Digesters and agitators.	1	1	1	1	1	1	1
Paper coating machines.	5	5	1	1	1	1	1
Other and indefinite.	8	8	1	1	1	1	1
Paper Products Machines.	258	256	1	1	2	2	28
Paper cup machines.	16	16	1	1	1	1	1
Tube machines.	3	3	1	1	1	1	1
Automatic box making machines.	33	32	1	1	1	1	1
Covering machines.	20	20	1	1	1	1	1
Cutting and punching machines.	87	81	1	1	1	1	5
Paper balers.	35	31	1	1	1	1	22
Doming and ending machines.	8	8	1	1	1	1	1
Corner staying machines.	4	4	1	1	1	1	1
Bag and envelope making machines.	23	22	1	1	1	1	1
Paper finishing machines.	2	2	1	1	1	1	1
Embossing rolls and calenders.	3	3	1	1	1	1	1
Creasing and folding machines.	8	8	1	1	1	1	1
Embossing presses.	16	16	1	1	1	1	1
Other and indefinite.	30	30	1	1	1	1	1
Printing and Bookbinding Machines.	351	348	1	1	1	1	1
Composing machines.	30	30	1	1	1	1	1
Printing presses.	234	232	1	1	1	1	1
Binding presses.	1	1	1	1	1	1	1
Sewing and stitching machines.	52	52	1	1	1	1	1
Other printing machines.	12	12	1	1	1	1	1
Other bookbinding machines.	22	21	1	1	1	1	1
Textile Machines.	1,014	992	4	4	4	4	18
Washers.	1	1	1	1	1	1	1
Dryers.	4	4	1	1	1	1	1
Opening and cleaning machines.	22	22	1	1	1	1	1
Carding and combing machines.	38	38	1	1	1	1	1
Spinning machines.	21	21	1	1	1	1	1
Weaving machines.	53	52	1	1	1	1	1
Dyeing, finishing and printing machines.	39	39	1	1	1	1	1
Pile cutting machines.	1	1	1	1	1	1	1
Braiding, knitting and lace making machines.	45	45	1	1	1	1	1
Rope making machines.	14	14	1	1	1	1	1
Sewing machines.	464	448	2	2	2	2	14
Cloth cutting and stamping machines.	245	241	1	1	1	1	3
Hat making machines.	15	15	1	1	1	1	1
Coating and inlaying machines.	1	1	1	1	1	1	1
Winders, doublers and quillers.	23	23	1	1	1	1	1
Other and indefinite.	23	22	1	1	1	1	1

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Continued							
Laundry Machines	314	265	.....	.....	14	5	.....
Centrifugal extractors	6	0	.....	.....	1	1	.....
Carpet cleaners and tumblers	12	10	.....	.....	17	2	.....
Ironing machines	227	208	.....	.....	5	1	.....
Washing machines	32	26	.....	.....	21	1	.....
Wringers and other or indefinite	37	15	.....	.....	.....	.....	.....
Food Products Machines	854	420	3	4	294	133	.....
Cleaning, preparing and sorting machines	24	22	.....	.....	1	2	.....
Milling and grinding machines	17	10	1	.....	1	5	.....
Mixing machines and kettles	55	59	.....	.....	0	.....	.....
Cookers and ovens	1	1	.....	.....	8	.....	.....
Shaping and forming machines	91	82	1	.....	221	120	.....
Cutting and chopping machines	399	58	.....	.....	.....	.....	.....
Candy making machines	22	22	.....	.....	.....	.....	.....
Ice crushers and cutting machines	55	15	.....	3	36	1	.....
Packing machines, all kinds	53	51	.....	.....	.....	2	.....
Bottling machines	51	50	.....	1	.....	.....	.....
Tobacco working machines	8	7	1	.....	.....	.....	.....
Stamping presses	1	1	.....	.....	.....	.....	.....
Centrifugal extractors and separators	1	1	.....	.....	16	.....	.....
Dishwashing and cleaning machines	25	9	.....	.....	.....	.....	.....
Roasting and drying machines	3	3	.....	.....	6	3	.....
Other and indefinite	38	29	.....	.....	.....	.....	.....
Farm Machines	40	2	3	1	6	2	26
Feed and ensilage cutting machines	5	.....	3	1	1	4	.....
Harvesters and mowers	18	1	.....	1	3	2	8
Threshers	2	.....	.....	.....	.....	.....	12
Hay presses and balers	1	.....	.....	.....	.....	.....	1
Plows, harrows and other farm machines	14	1	.....	.....	2	.....	11
Construction Machines	409	8	329	21	17	3	31
Concrete mixers	88	8	69	0	4	1	.....
Rock drills	78	.....	61	.....	2	1	14
Pile drivers	12	.....	12	.....	.....	.....	.....
Road rollers and graders	52	.....	46	1	3	2	.....
Grouting machines and cement guns	1	.....	1	.....	.....	.....	.....
Well drills	15	.....	13	.....	.....	2	.....
Trench and ditch digging machines	1	.....	1	.....	.....	.....	.....
Power shovels and dredging machines	83	.....	64	6	2	1	10
Other and indefinite	79	.....	62	8	6	1	2
Chemical Products Machines	33	32	1	.....	.....	.....	.....
Grinding machines	3	3	.....	.....	.....	.....	.....
Agitating mixers, vats and kettles	3	2	1	.....	.....	.....	.....
Furnaces, dryers, ovens and evaporators	1	1	.....	.....	.....	.....	.....
Calenders	1	1	.....	.....	.....	.....	.....
Soap stamping presses, power	5	5	.....	.....	.....	.....	.....
Soap stamping presses, hand or foot	1	1	.....	.....	.....	.....	.....
Packing machines, all kinds	10	10	.....	.....	.....	.....	.....
Other and indefinite	9	9	.....	.....	.....	.....	.....
Paints, Varnishes, Inks and Dyes Machines	11	11	.....	.....	.....	.....	.....
Agitating mixers and kettles	1	1	.....	.....	.....	.....	.....
Paint and pony mixers	1	1	.....	.....	.....	.....	.....
Grinding machines	1	1	.....	.....	.....	.....	.....
Crushers	2	2	.....	.....	.....	.....	.....
Other and indefinite	6	0	.....	.....	.....	.....	.....
Rubber, Celluloid and Composition Goods Machines	122	120	.....	.....	.....	2	.....
Calenders	1	1	.....	.....	.....	.....	.....
Tire making machines	1	1	.....	.....	.....	.....	.....
Mixers	2	2	.....	.....	.....	.....	.....
Cutting and slitting machines and saws	18	18	.....	.....	.....	.....	.....
Tubing and hose wrapping machines	2	2	.....	.....	.....	.....	.....
Hand and foot presses	22	22	.....	.....	.....	.....	.....
Tubing machines (no fabric)	1	1	.....	.....	.....	.....	.....
Punching and pressing machines	24	24	.....	.....	.....	.....	.....

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Concluded							
Rubber, etc., Machines—Concluded							
Comb cutting machines	3	3					
Drills and lathes	17	17					
Grinding, washing and milling machines	6	6					
Vulcanizing machines	2					2	
Other and indefinite	23	23					
Mining and Ore Refining Machines	2						2
Miscellaneous Machines	62	12	1			43	2
Office machines	45	3				40	2
Spraying machines	15	8	1			2	
All other	2	1				1	
Other Than Power Working Machines	283	79	62	23	81	35	3
Pumps	48	9	21	7	6	4	1
Fans and blowers	88	28	3	1	43	12	1
Compressors	68	12	35	9	4	8	
Automatic stokers	11	3		3	4	1	
Ice harvesting machines	2	2					
Machines, not otherwise classified	53	24	8	3	13	9	1
Hand and foot power devices, n. o. c.*	13	1			11	1	
Total—Machinery, Prime Movers and Power Transmission Apparatus	8,013	6,031	713	143	580	436	110

HOISTING AND CONVEYING APPARATUS

Elevators, Except Construction and Sidewalk	512	118	21	39	220	113	1
Cable breaking	13	3		1	5	4	
Cable unwinding	1				1		
Caught by cable	20	3	1	1	12	3	
Struck by counterweight	1	1					
Machinery breaking	2	1			1		
Caught in or struck by machinery	30	7	3		16	4	
Caught between floor and car	47	17	1	2	15	12	
Caught between car or shaft side and car	27	13		2	9	3	
Caught between gate and car	1	1					
Caught between car and overhead equipment	2		1		1		
Struck by car in pit	4		1		2	1	
Struck by car elsewhere	1				1		
Sudden start or stop of car	11	3	2	2	4		
Car rising too high	3		1		2		
Fall of worker into shaft from floor	115	21	5	9	51	28	1
Fall of worker into shaft from car	7	1		1	5		
Fall of worker into or from car	11			1	8	2	
Objects falling down shaft from floor	3		1	1		1	
Objects falling down shaft from car	2				1	1	
Gates and doors	171	37	4	15	70	45	
Fall of car, indefinite	19	6		2	5	6	
Elevators, other and indefinite	21	4	1	2	11	3	
Dumb-Waiters	149		4	1	142	2	
Sidewalk Elevators	41	7	2	9	18	5	
Construction Hoists and Elevators	10		10				
Mine Cages, Skips and Buckets	1						1
Locomotive Cranes	5	3	2				
Car striking or catching person	1	1					
Caught in machinery	1		1				
Caught or struck by load, lowering or raising	1	1					
Load falling, slipping of hitch	1		1				
Falls from crane or crane track, not in erecting or rigging	1	1					

* Not otherwise classified.

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HOISTING, ETC.—Concluded							
Gantry and Traveling Cranes	223	132	51	18	2	15	5
Caught or struck by car.....	19	8	8	.....	1	2	.....
Fall of car.....	3	1	2	.....	1	.....	.....
Caught or struck by cable or chain.....	12	5	4	1	1	1	.....
Caught in machinery.....	8	2	3	1	.....	2	.....
Caught or struck by hook or sling.....	58	38	9	5	.....	3	3
Caught or struck by swinging load.....	30	21	5	3	.....	1	.....
Struck by load, lowering or raising.....	16	13	2	1	.....	.....	.....
Load falling, breaking of cable or chain.....	6	4	.....	2	.....	.....	.....
Load falling, slipping of cable.....	4	2	.....	1	.....	.....	1
Load falling, slipping of hook.....	17	14	2	.....	.....	1	.....
Load falling, slipping of hitch.....	5	5	.....	.....	.....	.....	.....
Load falling, failure of current on magnet.....	1	1	.....	.....	.....	.....	.....
Objects falling from load or bucket.....	16	7	8	2	.....	1	.....
Falls from cranes or crane track, not in erecting or rigging.....	16	7	5	2	.....	1	1
Other and indefinite.....	12	1	5	.....	.....	3	1
Derricks and Jib Cranes	314	41	161	79	8	19	6
Struck by derrick or crane.....	8	.....	3	4	.....	1	.....
Fall of derrick or crane.....	9	1	6	1	1	.....	.....
Caught or struck by cable or chain.....	33	8	16	5	1	2	1
Caught in machinery.....	22	3	11	5	.....	3	1
Caught or struck by hook or sling.....	83	15	46	17	3	1	1
Boom swinging.....	20	2	15	3	.....	.....	.....
Boom or mast breaking.....	1	.....	1	.....	.....	.....	.....
Struck by swinging load.....	32	2	15	12	1	2	.....
Struck by load, lowering or raising.....	21	.....	1	13	.....	3	1
Load falling, slipping of cable or hook.....	8	1	4	3	.....	.....	.....
Load falling, breaking of cable or hook.....	4	.....	3	1	.....	.....	.....
Load falling, breaking of sling.....	3	.....	2	.....	.....	1	.....
Load falling, breaking of machinery.....	1	.....	1	.....	.....	.....	.....
Load falling, slipping of hitch.....	2	.....	2	.....	.....	.....	.....
Load falling, other and indefinite.....	6	1	2	2	.....	1	.....
Objects falling from load.....	34	4	17	10	1	2	.....
Falls from crane load.....	3	.....	3	.....	.....	.....	.....
Falls from derrick, crane cab or track, not in erecting or rigging.....	7	2	4	.....	.....	1	.....
Other and indefinite.....	17	2	6	3	1	3	2
Blocks and Tackles, Winches, Hand Hoists, Etc.	224	53	82	35	28	19	7
Objects falling from.....	41	9	18	5	4	5	.....
Caught in or struck by.....	119	30	40	22	15	7	5
Struck by load.....	15	4	5	3	.....	2	1
Rope or cable breaking or slipping.....	30	5	12	3	5	4	1
Other and indefinite.....	19	5	7	2	4	1	.....
Hay Forks, Derricks and Stackers	4	1	.....	.....	.....	.....	3
Unloading Machines	20	7	1	3	1	8	.....
Air Hoists	5	2	2	1	.....	.....	.....
Overhead Trolleys	29	19	.....	2	1	6	1
Belt and Chain Conveyors	76	55	6	8	1	4	2
Screen Conveyors	1	.....	1	.....	.....	.....	.....
Bucket Conveyors	48	7	13	8	3	14	3
Platform Conveyors and Escalators	21	3	.....	11	4	3	.....
Charging Machines	2	2	.....	.....	.....	.....	.....
Hoists and Skips for Blast Furnaces, Etc.	9	3	1	1	.....	.....	4
Worm or Screw Conveyors	3	3	.....	.....	.....	.....	.....
Hoists and Conveyors, Other and Indefinite	113	48	24	13	7	14	7
Total—Hoisting and Conveying Apparatus	1,810	504	381	228	435	222	40

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
VEHICLES							
Steam and Electric Railways.	105	66	18	260	27	33	2
Train wrecks.	22	...	...	21	...	...	1
Collisions.	19	...	...	18	...	...	1
Derailments.	3	...	...	3	...	...	...
Falls from trains.	178	33	6	103	17	18	1
Getting on or off, in motion.	1	...	...	1	...	...	...
Getting on or off, at rest.	82	4	1	56	15	5	1
Riding, sudden start or stop.	3	...	...	3	...	...	...
Riding, slipping or loss of balance.	2	1	...	1	...	...	...
Loading and indefinite.	90	28	6	42	2	13	...
Falls on board.	40	...	...	35	3	2	...
Sudden start or stop.	10	...	...	8	2	...	...
Slipping or loss of balance.	18	...	...	16	1	1	...
Other and indefinite.	12	...	...	11	...	1	...
Striking against objects while on board.	1	...	...	1	...	...	...
Caught between cars.	22	3	1	18	...	...	...
While coupling or uncoupling.	11	2	...	9	...	...	...
Other and indefinite.	11	1	1	9	...	...	...
Struck by trains.	41	9	7	20	1	1	...
While switching.	2	2	...	...	...	...	...
While repairing cars or engines.	1	1	...	...	...	...	...
While crossing track.	4	...	2	1	1	...	...
Working or walking on or near track.	20	4	4	11	1	...	...
Other and indefinite.	14	2	1	8	2	1	...
Other causes.	102	21	4	62	1	12	...
Handling brakes.	4	...	...	4	...	...	...
Objects falling from cars, not in loading.	7	1	...	3	...	3	...
Objects shifting on load.	2	...	1	1	...	...	...
All other causes.	89	20	3	54	3	9	...
Mine and Quarry Cars and Motors.	56	...	26	...	...	...	24
Plant Trucks, Cars and Motors on Tracks.	46	41	1	3	...	...	1
Contractors' Cars or Engines.	2	...	2	...	...	...	...
Automobiles and Other Power Vehicles.	4,895	184	430	2,657	991	537	96
Automobiles and motor trucks.	4,612	123	388	2,566	957	514	84
Collisions, skidding.	141	...	1	59	67	11	3
Collisions, breaking of parts.	24	...	2	12	8	2	...
Collisions with cars and engines.	101	1	4	78	14	3	1
Collisions with other vehicles and objects.	898	6	58	507	260	88	4
Overturning, skidding or ditching.	97	2	7	43	38	7	...
Overturning, breaking of parts.	19	...	2	10	6	1	...
Overturning, all other.	81	3	6	50	17	5	8
Struck by or caught between.	780	33	39	283	267	91	7
Cranking.	345	8	14	241	24	60	8
Engines.	68	...	...	21	3	34	...
Breaking of car or part.	5	...	...	4	1	...	...
Falls from.	1,084	45	108	695	122	86	28
Objects falling from.	119	6	23	71	7	12	...
Objects shifting on load.	51	2	6	18	2	5	...
Mechanical unloading.	32	...	7	19	5	1	8
Wrecking cars.	13	...	...	7	...	6	...
Other and indefinite.	789	17	51	448	118	146	8
Power, plant and platform trucks.	82	41	...	33	3	4	1
Tractors.	146	19	41	31	17	7	31
Railroad hand cars.	1	...	...	5	...	...	...
Motorcycles.	50	1	1	22	14	12	...
Bicycles.	102	...	...	1	100	1	...

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
VEHICLES—Concluded							
Airplanes.....	12	.....	.....	7	5	.....	.....
Animal Drawn Vehicles, Except Mine Cars..	202	35	6	124	8	.....	29
Collisions with cars and engines.....	1	.....	.....	1	.....	.....	.....
Collisions with other vehicles.....	1	.....	.....	1	.....	.....	.....
Collisions with other objects.....	1	.....	.....	1	.....	.....	.....
Overturning.....	19	2	1	13	.....	.....	3
Whiffletrees.....	1	.....	.....	.....	.....	.....	1
Falls from vehicles.....	91	17	4	54	4	.....	12
Struck by or caught between vehicles.....	23	8	.....	10	1	.....	5
Objects falling from vehicles.....	7	2	.....	1	.....	.....	.....
Objects shifting on load.....	1	.....	1	.....	.....	.....	1
Breaking of vehicle or part.....	4	.....	.....	3	.....	.....	1
Mechanical unloading.....	6	1	.....	3	1	.....	.....
Sudden start or stop.....	33	3	.....	26	1	.....	3
Other and indefinite.....	14	2	.....	9	.....	.....	3
Animal Drawn Implements, Not Machinery..	13	.....	4	3	3	.....	3
Water Craft.....	15	.....	7	1	6	1	.....
All Other Vehicles.....	7	1	.....	.....	5	.....	.....
Total—Vehicles.....	5,750	327	494	3,056	1,146	572	155
EXPLOSIONS, ELECTRICITY, HEAT, ETC.							
Boilers and Steam Pressure Apparatus.....	171	27	39	12	36	7	.....
Steam boilers.....	117	6	84	4	22	1	.....
Steam pipes.....	21	11	4	.....	4	2	.....
Steam and hot water gauges.....	4	3	.....	1	.....	.....	.....
Other and indefinite.....	29	7	1	7	10	4	.....
Explosive Substances.....	344	70	58	51	102	51	11
Explosives, transporting and handling.....	2	.....	.....	.....	1	.....	1
Blasting.....	29	.....	18	2	1	.....	8
Dust, explosion.....	3	3	.....	.....	.....	.....	.....
Gas, explosion.....	105	24	4	7	69	1	.....
Gasoline and other petroleum products.....	117	12	21	33	10	38	3
Other and indefinite explosions.....	88	31	15	9	21	12	.....
High Pressure Apparatus.....	53	52	2	14	19	6	.....
Bursting of ammonia apparatus.....	1	.....	1	.....	.....	.....	.....
Bursting of other high pressure apparatus.....	38	36	.....	1	1	.....	.....
Bursting, other and indefinite.....	54	16	1	13	18	6	.....
Electricity.....	265	80	40	88	43	11	1
Trolley wire.....	8	.....	.....	6	.....	.....	.....
Third rail.....	11	.....	.....	11	.....	.....	.....
Transmission wire.....	42	6	10	21	3	2	.....
Switchboard apparatus.....	4	2	.....	2	.....	.....	.....
Switches, controllers and fuses.....	48	20	5	13	8	1	1
Motors and generators.....	4	3	.....	1	.....	.....	.....
Transformers.....	1	.....	.....	1	.....	.....	.....
Electrical fixtures.....	19	5	1	2	9	2	.....
Electrical appliances.....	20	11	2	.....	6	1	.....
Short circuits.....	70	21	10	22	12	5	.....
Other.....	40	12	12	9	5	2	.....
Conflagrations.....	26	7	1	2	12	3	.....
Fires in buildings.....	24	6	1	1	12	3	.....
Other fires.....	2	1	.....	1	.....	.....	.....
Hot Substances and Flames.....	1,981	678	197	99	872	123	12
Water.....	458	138	11	25	266	18	.....
Asphalt, tar, pitch, etc.....	122	29	77	3	9	3	1
Other hot liquids.....	448	102	2	3	337	4	.....
Molten metal.....	175	152	8	10	1	3	1

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry						
		Manufacturing	Construction	Transportation	Service	Trade	Other	
EXPLOSIONS, ETC.—Concluded								
Hot Substances and Flames—Concluded								
Metal, not molten.....	12	10	1	4	1	11	...	
Contact with hot surfaces.....	100	47	6	4	32	7	...	
Oxyacetylene and electric cutting and welding.....	54	11	20	4	6	13	...	
Flames, clothing.....	47	14	9	6	7	10	1	
Flames, other.....	272	68	29	21	123	27	4	
Hot glass.....	3	3	...	...	...	...	...
Ignition of gasoline, oil, etc.....	106	24	25	10	14	29	4	
Hot objects, other and indefinite.....	184	80	9	13	76	5	1	
Total—Explosions, Electricity, Heat, Etc.	2,880	914	387	266	1,084	204	25	
HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY								
Poisonous Substances.....								
Carbon monoxide and dioxide.....	28	8	1	7	6	6	...	
Poison ivy and other plants.....	135	5	63	19	28	2	18	
Illuminating gas.....	13	2	3	4	3	1	...	
Hydrocyanic acid and cyanide gases and fumes.....	2	2	...	...	...	...	...
Carbon bisulphide.....	2	2	...	...	...	...	...
Septic infection.....	13	...	...	...	12	1	...
Other and indefinite.....	90	24	18	2	28	18	2	
Corrosive Substances.....	628	199	249	25	108	35	12	
Lime.....	216	13	158	3	32	5	5	
Cement.....	63	...	58	2	2	1	...	
Acids.....	121	79	8	5	14	14	1	
Alkalies.....	96	43	10	4	35	4	...	
Other chemicals.....	132	64	15	11	25	11	8	
Irritant but not Corrosive Substances.....	14	2	2	2	6	2	...	
Occupational Diseases From*								
Anthrax.....	3	3	...	...	...	...	...
Lead poisoning.....	58	26	19	2	2	7	2	
Zinc poisoning.....	1	1	...	...	...	...	...
Mercury.....	4	4	...	...	...	...	...
Arsenic.....	1	...	...	1	...	...	...
Wood alcohol.....	1	...	...	...	1	...	...
Nitro and amido derivatives of benzol.....	70	64	3	...	1	2	...	
Carbon bisulphide.....	5	4	1	...	...	...	...
Nitrous fumes.....	1	1	...	...	...	...	...
Nickel carbonyl.....	2	2	...	...	...	...	...
Dope (lacquers).....	1	3	...	...	...	3	...
Formaldehyde.....	2	2	...	...	...	...	...
Chromic acid (chrome ulcer).....	10	10	...	...	...	...	...
Handling tar, pitch, etc.....	5	2	1	...	1	1	...	
Compressed air.....	13	...	13	...	...	...	...
Methyl chloride.....	2	...	1	...	1	...	...
Carbon monoxide.....	10	3	1	2	1	3	...	
Sulphuric, hydrochloric and hydrofluoric acid fumes from petroleum products (respiratory and gastro-intestinal disorders).....	5	4	...	1	...	...	...
Continuous friction, rubbing, etc. (blisters and abrasions).....	5	3	1	...	...	...	1
Continuous vibration, pressure, etc. (bursitis and synovitis).....	234	100	53	16	48	10	7	
Direct contact with harmful alkalies, acids, etc. (dermatitis).....	107	53	26	4	18	5	1	
Silica and dust.....	701	258	61	19	303	47	13	
All other causes.....	45	19	9	...	1	...	16	
Total—Harmful Substances and Occupational Activity.....	2,366	864	539	111	626	150	76	

* See also "Poisonous Substances" and "Corrosive Substances."

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS							
Falls on Stairs and Steps	2,863	369	148	240	1,776	311	19
Due to handling objects	464	32	40	66	279	45	2
Slipping on wet steps	109	9	3	13	77	7	...
Slipping on icy steps	46	5	—	12	26	3	...
Slipping or loss of balance n.o.c.†	1,177	172	46	85	727	134	13
Stumbling, misstepping, heel catching, etc.	543	78	20	30	334	79	2
Falling over loose objects on stairs	82	9	14	—	46	9	...
Knocked down stairs	2	—	—	—	2	—	...
Defective or broken stairs	78	3	10	13	49	3	...
Other and indefinite	362	61	15	17	236	31	2
Falls from Ladders	1,801	287	567	92	558	236	11
Breaking or ladder or parts	180	14	77	8	57	17	7
Slipping, twisting or fall of ladder	652	114	207	24	218	62	27
Knocked off ladder	27	6	11	1	—	3	...
Falls from ladders while handling objects	82	11	23	5	18	24	1
Slipping of foot or loss of balance	521	89	156	39	145	77	15
Falling in getting on or off	59	10	20	5	13	9	2
Slipping or breaking of tool	19	7	—	3	3	—	—
Other and indefinite	261	36	67	7	98	44	9
Falls from Scaffolds and Stagings	765	47	633	14	40	23	8
Breaking or slipping of scaffold	286	17	235	5	15	7	7
Breaking of tackle or support	11	1	9	1	—	—	—
Tilting of scaffold	6	—	6	—	—	—	—
Tilting or falling of loose plank	45	—	39	1	2	—	—
Defective or broken surfaces	13	1	10	—	1	—	—
Falls from scaffolds while handling objects	38	2	32	3	—	—	—
Slipping or loss of balance	129	—	113	2	7	—	—
Falling over loose objects on scaffold	5	1	4	—	—	—	—
Knocked off scaffold	15	2	12	1	—	—	—
Falling in getting on or off	68	6	53	—	0	3	—
Slipping or breaking of tool	7	3	4	—	—	—	—
Other and indefinite	142	11	116	1	9	4	1
Falls from Other Elevations	2,020	474	600	229	406	252	59
Benches, boxes, chairs and tables	579	151	67	30	208	119	4
Structures not in erection or demolition	29	2	9	10	7	1	...
Cranes, derricks, elevators and hoists in erection and rigging	1	—	—	—	—	—	—
Elevated bins, pockets and tanks	10	4	1	—	—	3	1
Structures in erection or demolition	186	2	177	—	3	2	2
Temporary floors	2	—	2	—	—	—	—
Boilers, engines and machines	97	65	13	3	9	3	4
Piles of material	133	58	8	23	5	35	4
Poles, trees and towers	73	2	9	32	9	—	21
Roofs	110	14	66	5	16	3	6
Runways, balconies and platforms	463	107	182	74	59	36	5
Loading platforms	49	18	—	21	2	8	—
Gangplanks	11	—	3	5	2	1	—
Tramways and trestles (incl. railroads)	14	2	3	5	—	4	—
Window and wall openings	59	5	11	2	39	2	—
All other elevations	204	44	48	10	46	35	12
Falls into Excavations, Pits and Openings	527	76	206	72	103	54	16
Bins, vats, etc., with hot or corrosive substances	28	23	2	1	2	—	—
Bins, pits and vats, other	135	27	15	35	29	23	6
Floor openings, except elevator shafts	186	20	82	13	39	26	6
Manholes (street, sidewalk, etc.)	10	—	5	2	3	—	—
Excavations, ditches and other openings	168	6	102	21	30	5	4
Falls on Level Surfaces	9,803	2,451	1,278	1,598	3,152	1,123	201
Slipping of foot	3,429	733	270	429	1,537	404	56
Falls due to defective surfaces	258	52	36	66	81	18	5
Slipping or breaking of tools or work	304	115	56	50	40	30	13
Stumbling over fixed objects	107	18	17	16	49	6	1
Falls when handling bulky objects	2,624	756	403	498	553	347	67

† Not otherwise classified

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
FALLS OF WORKERS — Concluded							
Falls on Level Surfaces —Concluded							
Stumbling over loose objects.....	1,331	375	230	194	349	157	26
Falls with injuries due to objects in hands.....	774	194	151	151	192	69	17
Injury or fall due to foot catching.....	140	44	24	18	39	13	2
Other and indefinite.....	836	164	91	176	312	79	14
Other and Indefinite Falls of Workers	116	43	24	16	9	13	11
Total — Falls of Workers	17,895	3,747	3,456	2,261	6,044	2,012	375
STEPPING ON AND STRIKING OBJECTS							
Stepping On Objects	576	118	248	49	81	70	10
Nails.....	482	79	241	37	56	60	9
Sharp objects, other and indefinite.....	94	39	7	12	25	10	1
Striking Objects	3,404	1,113	433	390	891	531	46
Nails.....	169	52	53	13	30	19	2
Sharp projections from walls, etc.....	355	113	53	23	101	62	3
Fixed objects.....	1,565	487	166	226	427	242	17
Fellow worker.....	95	18	4	12	40	21	—
Loose objects, and other or indefinite.....	1,179	431	147	111	287	181	22
Struck by object stepped on.....	41	12	10	5	6	6	2
Total — Stepping On and Striking Objects	3,980	1,231	581	439	972	501	56
FALLING OBJECTS, NOT IN HANDLING							
Collapses	149	54	44	20	6	21	4
Buildings and walls.....	37	4	27	1	—	1	3
Piles.....	102	49	11	17	4	20	1
Scaffolds and stagings.....	7	—	5	1	1	—	—
Other and indefinite.....	3	1	1	1	—	—	—
Objects Falling From Elevations	1,298	422	396	104	185	168	23
Structures not in erection or demolition.....	13	3	—	3	6	1	1
Bins and pockets.....	3	—	—	1	—	1	—
Trestles and tramways.....	1	—	1	—	—	—	—
Runways, balconies and platforms.....	14	3	3	5	—	3	—
Racks and shelves.....	105	37	1	—	31	30	—
Floor openings, except elevator shafts.....	13	1	10	—	—	1	—
Chutes, conveyors, slides and screens.....	40	20	3	6	1	9	1
Machines and work benches.....	333	214	39	13	33	30	4
Piles.....	154	51	28	32	9	30	4
Structures in erection or demolition.....	154	3	141	3	4	2	1
Scaffolds and stagings.....	68	5	57	—	4	1	—
Other and indefinite.....	400	84	113	35	97	60	11
Trees Falling	84	41	12	5	11	—	15
Objects Tipping Over	341	117	56	43	73	51	1
Objects Falling Into Excavations	64	—	53	4	5	—	2
Ditches and trenches.....	44	—	37	3	3	—	1
Other and indefinite.....	20	—	16	1	2	—	1
Cave-ins	148	5	107	7	18	1	10
Ditches and trenches.....	80	2	61	5	8	—	4
Tunnels.....	1	—	1	—	—	—	—
Sand banks and all other cave-ins.....	67	3	45	2	10	1	8
Falling Objects in Mines, Quarries and Tunnels	133	1	92	—	—	—	40
Other Falling and Shifting Objects	311	85	71	24	101	19	11
Poles.....	3	—	—	—	2	—	1
Objects falling due to wind, etc.....	26	5	11	4	2	—	—
Other falling and shifting objects.....	282	80	60	20	97	15	10
Falling Objects, Handling Not Determined	834	282	197	137	111	93	14
Total — Falling Objects, Not in Handling	3,362	1,007	1,028	344	510	353	126

TABLE 26—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HANDLING OBJECTS							
Heavy and Bulky Objects.	18,210	5,419	3,089	3,611	3,320	2,469	362
Objects dropped while handling, carrying, etc.	2,758	896	639	421	463	312	27
Objects handled by fellow worker	491	141	150	80	80	33	7
Objects dropped or falling while loading	1,153	246	188	492	57	145	25
Objects dropped or falling while piling	220	99	26	47	9	38	1
Caught between object handled and other object	1,494	433	339	342	170	161	49
Strain in handling	10,219	3,054	1,390	1,804	2,284	1,541	168
Objects slipping, breaking and other or indefinite	1,875	550	357	425	277	239	27
Sharp and Rough Objects.	4,634	1,505	513	363	1,465	731	57
Glass	883	206	52	55	461	106	3
Nails	313	94	57	37	48	73	4
Wire and metal straps	461	163	65	81	56	89	7
Sheet metal and sheet metal objects	559	221	81	46	132	77	2
Wood splinters	479	170	105	54	73	68	9
Metal splinters	397	117	61	14	171	33	1
Castings	8	0	1	—	—	1	—
Bones	149	18	—	7	39	85	—
In hands of fellow worker	15	8	1	2	3	1	—
Pins and sharp objects, other and indefinite	1,370	502	90	67	482	198	31
Hand Trucks, Carts and Wheelbarrows.	1,142	516	97	229	105	183	7
Struck by truck in handling	332	143	36	81	24	45	3
Struck by truck handled by fellow worker	99	40	8	16	15	20	—
Caught between truck and other object	133	69	11	20	8	25	—
Objects falling from truck, not in handling	183	86	11	43	21	21	1
Overturning	111	49	17	13	16	15	1
Running over hands or feet	219	96	7	48	16	51	1
Other and indefinite	65	33	7	8	5	11	1
Continued Wear From Handling and Friction							
Burns	85	34	26	6	11	2	6
Handling Objects, Not Heavy, Bulky or Sharp.	43	27	3	1	10	2	—
Total — Handling Objects.	24,114	7,501	3,728	4,210	4,911	3,392	372
HAND TOOLS							
In Hands of Injured Worker.	4,784	1,552	956	388	891	881	116
Glancing and slipping of tool in use	3,924	1,331	658	316	781	747	91
Breaking and coming apart of tool	102	34	27	7	17	14	3
Flying pieces set in motion by tool	653	165	253	57	59	99	20
<i>Nails and spikes</i>	45	12	20	4	6	3	—
<i>Metal chips</i>	281	81	89	28	18	59	6
<i>Stone</i>	120	14	84	4	11	1	6
<i>Other and indefinite</i>	207	58	60	21	24	36	8
Tools in hands of injured worker, other and indefinite	105	22	18	8	34	21	2
In Hands of Fellow Worker.	348	102	132	33	—	29	14
Glancing and slipping of tool in use	287	80	110	26	32	27	12
Breaking and coming apart of tool	10	2	6	—	1	1	—
Flying pieces set in motion by tool	47	18	16	6	4	1	2
<i>Nails and spikes</i>	4	2	2	—	—	—	—
<i>Metal chips</i>	24	10	6	4	2	1	1
<i>Stone</i>	8	1	5	1	1	—	—
<i>Other and indefinite</i>	11	5	3	1	1	—	1
Tools in hands of fellow worker, other and indefinite	4	2	—	1	1	—	—
Total — Hand Tools.	5,132	1,654	1,088	421	829	810	130

TABLE 26—(Concluded)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1938

Causes of accidents	Total number of cases	Industry					
		Manufactur- ing	Con- struc- tion	Trans- porta- tion	Service	Trade	Other
ANIMALS							
Draft Animals.....	235	16	2	143	21	7	40
Kicked and stepped on by animals.....	96	0	1	59	6	2	19
Bites.....	4	—	—	3	—	—	1
Runaways.....	45	4	—	30	4	—	7
Other and indefinite.....	90	3	1	57	11	5	13
Other Animals.....	151	13	7	13	76	14	28
Total — Animals.....	386	29	9	162	97	21	68
MISCELLANEOUS							
Miscellaneous	3,017	564	312	479	1,222	381	59
Flying particles and objects, not from ma- chines and hand tools.....	443	147	66	83	92	35	20
Doors, windows, covers and gates.....	984	185	55	97	492	151	4
Drenching, not drowning.....	14	2	4	3	4	—	1
Heat prostration and sunstroke.....	50	8	17	11	8	4	2
Cold, including frostbite.....	59	11	7	14	12	13	2
Lightning.....	11	2	—	1	1	—	7
Violence of fellow worker.....	72	20	3	9	32	7	1
Violence, all other.....	521	15	16	107	344	37	2
Wrestling, sparring, chasing and horseplay.....	27	4	1	4	17	1	—
Compressed air, not explosions.....	89	12	16	34	1	25	1
Cyclones, floods, earthquakes, etc.....	3	—	—	1	2	—	—
Miscellaneous accidents, other.....	208	48	16	37	79	25	3
Injuries due to position assumed.....	514	106	111	75	129	80	13
Swallowing objects.....	0	3	—	—	1	2	—
Accidental discharge of firearms.....	16	1	—	3	8	1	3
Total — Miscellaneous.....	3,017	564	312	479	1,222	381	59
INDEFINITE HISTORY OF ACCIDENT							
Indefinite History of Accident.....	165	53	27	18	45	16	6
GRAND TOTAL — ALL ACCIDENTS	78,870	24,426	12,843	12,138	18,601	9,270	1,592

TABLE 27
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, PRIME MOVERS AND POWER TRANSMISSION APPARATUS							
Prime Movers	150	21	73	9	22	15	10
Steam engines	3	1	1		1		
Gasoline engines	105	8	60	3	16	9	9
Electric motors and dynamos	39	11	11	5	5	5	1
Compressed air motors	1		1				
Prime movers, other and indefinite	2	1		1			
Power Transmission Apparatus	262	223	9	1	8	10	11
Shafts	16	15					1
Shaft collars and couplings	1	1					
Belts and pulleys	152	134	1		5	7	5
Chains and sprockets	21	16	2			1	2
Ropes, cables and drums	10	3	4			1	
Cogs, cams, gears and friction wheels	55	48	1	1	3	1	1
Clutches	5	4	1				
Ratchets	2	2					
POWER WORKING MACHINES							
Stone, Clay and Glass Products Machines	37	32	3				2
Brick and tile making machines	8	8					
Cement making machines	1	1					
Glass making machines	10	10					
Pottery making machines	2	2					
Emery and carborundum making machines	4	4					
Stone and ore crushers and grinders	2		1				1
Stone working machines	8	7	1				
Coal crushers	2		1				1
Metal Working Machines	1,990	1,641	129	58	35	118	9
Abrasive wheels	234	182	10	11	7	22	22
Bending and straightening machines	50	41	6	2		1	
Pipe cutting and threading machines	18	11	4			3	
Boring machines	14	10		3	1		
Drills	90	82		3	2	3	
Milling and gear cutting machines	47	42	1		2		
Hammers and forging machines	30	30					
Lathe and automatic screw machines	124	112	3	1		5	
Cleaning mills, tumblers, etc.	3	3					
Molding machines	22	21			1		
Planers and shapers	19	18		1			
Polishers and buffers	135	121			5	9	
Portable power tools	237	62	96	28	16	28	7
Power presses	581	574	3	2	1	1	
Hand and foot presses	65	64					
Rolling and blooming mills	13	13					
Metal saws	55	53	1				1
Metal shears and cutting machines	123	79	4	1		39	
Welding and heat cutting machines	13	11		2			
Wire working machines	36	36					
Cable making machines	3	3					
Wire and tube drawing machines	7	7					
Hydraulic, pneumatic and screw presses	4	1				3	
Automatic can making machines	2	2					
Metal working machines, other and indefinite	65	63	1	1			
Wood Working Machines	941	733	74	20	43	59	12
Boring machines and drills	19	18			1		
Cork working machines	7	7					
Lathe	11	11					
Mortising machines	6	5					
Nailing machines	7	7					
Tenoning, planing and molding machines	186	144	20	3	7	10	2
Presses (wood working)	8	8					
Sanding machines	21	21					
Band, scroll and jig saws	31	23	3	1	1	3	
Circular, universal and table saws	536	384	50	16	32	44	10
Shapers	68	64	1		1		
Veneering machines	11	11					
Brush and broom making machines	10	10					
Wood working machines, other and indefinite	20	20					

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manu- factur- ing	Con- struc- tion	Trans- porta- tion	Service	Trade	Other
MACHINERY, ETC.—Continued							
Leather Working Machines—Tanneries	54	54					
Buffing drums	3	3					
Other drums and paddle vats	6	6					
Fur working machines	8	8					
Fleshing, skinning and shaving machines	9	9					
Rolling, felting and glazing jacks	7	7					
Pressing and baling machines	1	1					
Hair washing and drying machines	1	1					
Setting up and setting out machines	5	5					
Splitting machines	2	2					
Unhairing machines	2	2					
Extractors	1	1					
Other and indefinite	9	9					
Leather Products Machines	254	253					
Cutting, skinning and slitting machines	59	59					
Punching and pressing machines	66	65					
Sewing machines	40	40					
Buffing machines	6	6					
Other shoe making machines	82	82					
Other and indefinite	11	11					
Paper Making Machines	125	126				2	
Barkers, chippers, splitters and grinders	9	9					
Beaters, including rag washers	11	11					
Screens	1	1					
Paper machines	46	45					
Rolls and winders	28	28					
Cutters and slitters	21	19				2	
Paper coating machines	3	3					
Other and indefinite	0	0					
Paper Products Machines	307	275			2	7	23
Paper cup machines	5	5					
Tube machines	2	2					
Automatic box making machines	36	36					
Covering machines	23	23					
Cutting and punching machines	100	90				5	5
Paper balers	37	15			2	2	18
Doming and ending machines	11	11					
Corner staying machines	7	7					
Bag and envelope making machines	25	25					
Paper finishing machines	1	1					
Embossing rolls and calenders	5	5					
Creasing and folding machines	10	10					
Embossing presses	13	13					
Other and indefinite	32	32					
Printing and Bookbinding Machines	254	289	2		1	2	
Composing machines	33	33					
Printing presses	190	187	1			1	1
Binding presses	1	1					
Sewing and stitching machines	41	39	1				
Other printing machines	11	11					
Other bookbinding machines	18	18					
Textile Machines	976	884			1	3	7
Dryers	3	3					
Opening and cleaning machines	19	18			1		
Carding and combing machines	48	48					
Spinning machines	22	22					
Weaving machines	47	47					
Dyeing, finishing and printing machines	38	38					
Braiding, knitting and lace making machines	34	34					
Rope making machine	7	7					
Sewing machines	445	437				1	6
Cloth cutting and stamping machines	261	258				2	1
Hat making machines	13	13					
Coating and inlaying machines	3	3					
Winders, doublers and quillers	31	31					
Other and indefinite	25	25					

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
MACHINERY, ETC.—Continued							
Laundry Machines.....	272	229	.....	1	34	8	.....
Centrifugal extractors.....	5	5	.....	.....	.....	.....	.....
Carpet cleaners and tumblers.....	10	10	.....	.....	.....	.....	.....
Ironing machines.....	184	171	.....	1	6	6	.....
Washing machines.....	35	27	.....	.....	7	1	.....
Wringers and other or indefinite.....	37	15	.....	.....	21	1	.....
Food Products Machines.....	745	344	.....	.....	257	144	.....
Cleaning, preparing and sorting machines.....	9	8	.....	.....	.....	1	.....
Milling and grinding machines.....	16	12	.....	.....	1	3	.....
Mixing machines and kettles.....	55	49	.....	.....	6	.....	.....
Cookers and ovens.....	1	1	.....	.....	.....	.....	.....
Shaping and forming machines.....	84	81	.....	.....	2	1	.....
Cutting and chopping machines.....	382	48	.....	.....	206	128	.....
Candy making machines.....	15	15	.....	.....	.....	.....	.....
Ice crushers and cutting machines.....	36	8	.....	.....	26	1	.....
Packing machines, all kinds.....	39	38	.....	.....	.....	1	.....
Bottling machines.....	38	38	.....	.....	.....	.....	.....
Tobacco working machines.....	2	2	.....	.....	.....	.....	.....
Centrifugal extractors and separators.....	1	1	.....	.....	.....	.....	.....
Dish washing and cleaning machines.....	28	14	.....	.....	13	1	.....
Roasting and drying machines.....	3	2	.....	.....	1	.....	.....
Other and indefinite.....	36	27	.....	.....	2	7	.....
Farm Machines.....	42	1	2	2	8	.....	29
Feed and ensilage cutting machines.....	3	.....	.....	.....	.....	3	.....
Harvesters and mowers.....	18	.....	2	12	8	.....	6
Threshers.....	4	.....	.....	.....	.....	4	.....
Hay presses and balers.....	1	.....	.....	.....	.....	1	.....
Plows, harrows and other farm machines.....	16	1	.....	.....	.....	.....	15
Construction Machines.....	407	10	332	25	23	3	14
Concrete mixers.....	81	7	62	3	4	3	2
Rock drills.....	50	.....	75	.....	1	.....	4
Pile drivers.....	18	.....	16	.....	1	.....	1
Road rollers and graders.....	51	.....	39	5	6	.....	1
Well drills.....	13	.....	8	.....	2	.....	1
Trench and ditch digging machines.....	3	.....	3	.....	.....	.....	1
Power shovels and dredging machines.....	81	2	62	10	1	.....	3
Other and indefinite.....	52	1	67	7	5	.....	.....
Chemical Products Machines.....	44	44	.....	.....	.....	.....	.....
Grinding machines.....	1	1	.....	.....	.....	.....	.....
Agitating mixers, vats and kettles.....	5	5	.....	.....	.....	.....	.....
Machines of recovery, such as screens, etc.....	2	2	.....	.....	.....	.....	.....
Crushers.....	2	2	.....	.....	.....	.....	.....
Centrifugal extractors.....	1	1	.....	.....	.....	.....	.....
Soap stamping presses, power.....	7	7	.....	.....	.....	.....	.....
Soap stamping presses, hand or foot.....	1	1	.....	.....	.....	.....	.....
Soap grinders.....	1	1	.....	.....	.....	.....	.....
Packing machines, all kinds.....	15	15	.....	.....	.....	.....	.....
Tablet presses and pill making machines.....	1	1	.....	.....	.....	.....	.....
Other and indefinite.....	8	1	8	.....	.....	.....	.....
Paints, Varnishes, Inks and Dyes Machines.....	12	12	.....	.....	.....	.....	.....
Paint and pony mixers.....	1	1	.....	.....	.....	.....	.....
Grinding machines.....	2	2	.....	.....	.....	.....	.....
Machines of recovery, such as screens, etc.....	2	2	.....	.....	.....	.....	.....
Other and indefinite.....	7	7	.....	.....	.....	.....	.....
Rubber, Celluloid and Composition Goods							
Machines.....	130	124	.....	.....	.....	6	.....
Calenders.....	3	3	.....	.....	.....	1	.....
Tire making machines.....	7	6	.....	.....	.....	.....	.....
Cutting and slitting machines and saws.....	28	28	.....	.....	.....	.....	.....
Hand and foot presses.....	22	22	.....	.....	.....	.....	.....
Tubing machines (no fabric).....	1	1	.....	.....	.....	.....	.....
Punching and pressing machines.....	24	24	.....	.....	.....	.....	.....
Cutting and punching machines, guillotine.....	1	1	.....	.....	.....	.....	.....
Drills and lathes.....	15	15	.....	.....	.....	.....	.....
Grinding, washing and milling machines.....	2	2	.....	.....	.....	3	.....
Vulcanising machines.....	5	2	.....	.....	.....	1	.....
Other and indefinite.....	22	20	.....	.....	.....	1	.....

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transporta- tion	Service	Trade	Other
MACHINERY, ETC.—Concluded							
Miscellaneous Machines.....	39	1	1	.....	33	.....	1
Office machines.....	32	.....	1	.....	32	.....	1
Spraying machines.....	7	1	.....	.....	1	.....	1
Other Than Power Working Machines.....							
Pumps.....	275	90	52	26	63	37	7
Fans and blowers.....	60	13	17	11	7	8	4
Turntables.....	85	36	10	5	26	8	1
Compressors.....	1	.....	.....	1	.....	.....	.....
Automatic stokers.....	41	9	22	8	1	3	.....
Machines, not otherwise classified.....	11	3	.....	1	5	1	1
Hand and foot power devices, n.o.c.*.....	62	23	4	2	18	15	.....
Ice harvesting machines.....	12	5	.....	.....	6	1	.....
	3	1	.....	.....	.....	1	1
Total—Machinery, Prime Movers and Power Transmission Apparatus.....							
	7,389	5,499	677	145	539	433	96

HOISTING AND CONVEYING APPARATUS

Elevators, except Construction and Sidewalk.....	497	109	38	30	235	85	.....
Cable breaking.....	19	10	2	.....	5	2	.....
Cable unwinding.....	1	.....	.....	.....	1	.....	.....
Caught by cable.....	14	5	2	.....	5	2	.....
Struck by counterweight.....	6	.....	3	.....	3	.....	.....
Machinery breaking.....	1	1	.....	.....	.....	.....	.....
Caught in or struck by machinery.....	23	.....	5	1	16	1	.....
Caught between floor and car.....	33	10	1	2	9	11	.....
Caught between cars or shaft side and car.....	28	8	.....	2	11	7	.....
Struck by car in pit.....	8	2	.....	.....	6	.....	.....
Struck by car elsewhere.....	2	1	.....	.....	1	.....	.....
Sudden start or stop of car.....	4	1	1	.....	.....	2	.....
Car rising too high.....	1	.....	.....	.....	1	.....	.....
Fall of worker into shaft from floor.....	122	12	8	11	72	19	.....
Fall of worker into shaft from car.....	8	.....	1	2	3	2	.....
Fall of worker into or from car.....	8	2	.....	1	3	2	.....
Objects falling down shaft from floor.....	7	1	3	.....	1	2	.....
Objects falling into car.....	2	.....	1	.....	1	.....	.....
Objects falling down shaft from car.....	1	.....	1	.....	1	.....	.....
Catching of load between car and shaft.....	1	.....	1	.....	1	.....	.....
Gates and doors.....	145	39	4	5	68	28	.....
Fall of car, indefinite.....	34	10	2	3	17	2	.....
Elevators, other and indefinite.....	29	7	4	2	11	5	.....
Dumb-Waiters.....	114	.....	2	.....	112	.....	.....
Sidewalk Elevators.....	34	3	1	7	17	6	.....
Construction Hoists and Elevators.....	22	.....	22	.....	.....	.....	.....
Mine Cages, Skips and Buckets.....	1	.....	1	.....	.....	.....	.....
Locomotive Cranes.....	4	1	1	2	.....	.....	.....
Caught or struck by car.....	2	.....	1	1	.....	.....	.....
Caught or struck by cable or chain.....	1	1	.....	.....	1	.....	.....
Other and indefinite.....	1	.....	.....	1	.....	.....	.....
Gantry and Traveling Cranes.....	232	98	92	25	4	13	.....
Caught or struck by car.....	1	1	1	2	.....	.....	.....
Fall of car.....	7	1	4	.....	1	.....	.....
Caught or struck by cable or chain.....	15	10	7	3	.....	1	.....
Caught in machinery.....	13	3	6	2	1	1	.....
Caught or struck by hook or sling.....	60	33	18	7	1	1	.....
Caught or struck by swinging load.....	26	11	13	.....	1	.....	.....
Struck by load, lowering or raising.....	28	17	8	2	.....	1	.....
Load falling, breaking of cable or chain.....	3	2	.....	.....	.....	1	.....
Load falling, slipping of cable.....	3	2	1	.....	.....	1	.....
Load falling, breaking of hook.....	1	1	.....	.....	.....	1	.....
Load falling, slipping of hook.....	9	8	.....	.....	.....	1	.....

* Not otherwise classified.

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HOISTING, ETC.—Concluded							
Gantry and Traveling Cranes—Concluded							
Load falling, breaking of machinery	1	1	.....	.....	.....	.....	.....
Load falling, slipping of hitch	3	3	.....	.....	.....	.....	.....
Load falling, failure of current on magnet	2	2	.....	.....	.....	.....	.....
Objects falling from load or bucket	26	1	18	6	.....	1	.....
Falls from cranes, or crane track, not in erecting or rigging	12	4	5	1	.....	2	.....
Other and indefinite	14	4	6	2	.....	2	.....
Derricks and Jib Cranes	223	18	120	66	7	9	3
Struck by derrick or crane	9	1	7	1	.....	.....	.....
Fall of derrick or crane	8	1	4	.....	.....	1	.....
Caught or struck by cable or chain	26	1	19	1	1	1	1
Caught in machinery	14	1	8	3	1	1	.....
Caught or struck by hook or sling	51	3	34	12	.....	2	.....
Boom swinging	13	2	5	4	1	1	.....
Boom or mast breaking	0	.....	4	1	.....	1	.....
Struck by swinging load	25	1	6	15	3	.....	.....
Struck by load, lowering or raising	18	.....	5	13	.....	.....	.....
Load falling, slipping of cable or hook	8	.....	5	2	.....	.....	.....
Load falling, breaking of cable or hook	5	2	1	2	.....	.....	.....
Load falling, breaking of sling	2	1	1	.....	.....	.....	.....
Load falling, breaking of machinery	1	1	.....	.....	.....	.....	.....
Load falling, slipping of hitch	3	.....	3	.....	.....	.....	.....
Load falling, other and indefinite	1	.....	.....	1	.....	.....	.....
Objects falling from load	26	4	12	10	.....	.....	.....
Falls from derrick, crane, cab or track, not in erecting or rigging	5	.....	3	1	1	2	1
Other and indefinite	4	.....	1	1	1	1	.....
Blocks and Tackles, Winches, Hand Hoists, Etc.	198	53	75	33	20	15	2
Objects falling from	42	11	23	3	4	1	.....
Caught in or struck by	99	23	33	20	14	7	2
Struck by load	12	5	3	2	.....	2	.....
Rope or cable breaking or slipping	23	6	8	4	2	3	.....
Other and indefinite	22	8	8	4	.....	2	.....
Hay Forks, Derricks and Stackers	4	.....	.....	.....	.....	.....	4
Unloading Machines	16	4	.....	4	4	4	.....
Air Hoists	6	2	3	1	.....	.....	.....
Overhead Trolleys	26	20	.....	3	.....	2	1
Belt and Chain Conveyors	67	49	2	6	1	6	3
Screen Conveyors	3	.....	.....	.....	.....	2	1
Bucket Conveyors	46	7	16	10	1	10	2
Platform Conveyors and Escalators	21	2	.....	9	6	4	.....
Charging Machines	1	.....	.....	.....	1	.....	.....
Hoists and Skips for Blast Furnaces, Etc.	1	.....	.....	.....	1	.....	.....
Worm or Screw Conveyors	1	1	.....	.....	.....	.....	.....
Hoists and Conveyors, Other and Indefinite	93	42	23	8	5	12	3
Total—Hoisting and Conveying Apparatus	1,610	409	396	204	414	168	19

VEHICLES

Steam and Electric Railways	399	54	9	278	26	30	2
Train wrecks	14	.....	.....	14	.....	.....	.....
Collisions	13	.....	.....	13	.....	.....	.....
Derailments	1	.....	.....	1	.....	.....	.....

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
VEHICLES—Continued							
Steam and Electric Railways—Concluded							
Falls from trains.....	169	25	5	106	16	16	1
Getting on or off, in motion.....	3			3			
Getting on or off, at rest.....	70	7	3	45	14	1	
Riding, slipping or loss of balance.....	3			2			1
Riding, contact with fixed structure.....	3			3			
Loading and indefinite.....	90	18	2	53	8	14	1
Falls on board.....	41	6		29	5	1	
Sudden start or stop.....	11	2		5	4		
Slipping or loss of balance.....	20	2		16	1	1	
Other and indefinite.....	10	2		8			
Striking against objects while on board.....	4			3	1		
Caught between cars.....	18	1	1	16			
While coupling or uncoupling.....	8			8			
Other and indefinite.....	10	1	1	8			
Struck by trains.....	42	4	1	33	3		1
While repairing cars or engines.....	1			1			
While repairing track.....	7			6			1
While crossing track.....	3	1		2			
Working or walking on or near track.....	17	2	1	14			
Other and indefinite.....	14	1		10	3		
Other causes.....	111	18	2	77	1	13	
Handling brakes.....	12			12			
Objects falling from cars, not in loading.....	4	1		2			1
Objects shifting on load.....	4	1	1	2			
All other causes.....	91	16	1	61	1	12	
Mine and Quarry Cars and Motors	102	3	86	.....	.....	.....	11
Plant Trucks, Cars and Motors on Tracks	32	25	2	4	1	.....	.....
Contractors Cars and Engines	3	.....	3	.....	.....	.....	.....
Automobiles and Other Power Vehicles	5,131	161	455	2,868	1,013	531	103
Automobiles and motor trucks.....	4,836	111	416	2,751	975	512	71
Collisions, skidding.....	161	4	7	67	68	14	1
Collisions, breaking of parts.....	80		1	22	6		1
Collisions with cars and engines.....	109		5	88	13		2
Collisions with other vehicles and objects.....	917	10	53	557	229	62	5
Overturning, skidding or ditching.....	88	1	1	31	48	6	1
Overturning, breaking of parts.....	27			15	10	1	
Overturning, all other.....	89			58	27	3	1
Struck by or caught between.....	854	29	110	319	280	108	18
Cranking.....	294	10	13	220	21	25	4
Engines.....	54		1	29	1	23	
Breaking of car or part.....	13			10	3		
Falls from.....	1,185	31	121	774	118	109	32
Objects falling from.....	118	6	26	66	11	9	5
Objects shifting on load.....	86	1	3	24	2		1
Mechanical unloading.....	57	1	10	34	7	8	2
Wrecking cars.....	15		1	5	9		
Other and indefinite.....	789	18	59	432	130	142	8
Power, plant and platform trucks.....	67	39	1	24	2	1	
Tractors.....	167	11	38	58	22	6	32
Railroad hand cars.....	6			6			
Motorcycles.....	55			29	14	12	
Bicycles.....	87		1	2	81	3	
Airplanes.....	8	1		4	3		
Animal Drawn Vehicles, Except Mine Cars	147	3	.....	115	11	1	17
Collisions with cars and engines.....	3			3			
Collisions with other vehicles.....	2			2			

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
VEHICLES—Concluded							
Animal Drawn Vehicles Except Mine Cars—Concluded							
Collisions with other objects.....	1			1			
Overturning.....	12	1		8			3
Falls from vehicles.....	63			52	3		8
Struck by or caught between vehicles.....	16	1		10	4	1	
Objects falling from vehicles.....	6	1		3	2		
Objects shifting on load.....	2			2			
Breaking of vehicle or part.....	4			3			1
Sudden start or stop.....	31			26	2		3
Other and indefinite.....	7			5			2
Animal Drawn Implements, Not Machinery.....	11	1	1	1	3		1
Water Craft.....	21	1	6	1	11	2	
All Other Vehicles.....	1		1		6	1	
Total—Vehicles.....	5,949	249	566	3,273	1,155	568	138
EXPLOSIONS, ELECTRICITY, HEAT, ETC.							
Boilers and Steam Pressure Apparatus.....	111	25	37	1	39	1	
Steam boilers.....	63	10	31	2	20		
Steam pipes.....	18	1	1	3	9	1	
Steam and hot water gauges.....	3	2	1				
Other and indefinite.....	27	9	4	4	10		
Explosive Substances.....	318	52	69	41	106	39	1
Explosives, manufacturing and storing.....	2	2					
Blasting.....	33	1	26	2	1		3
Gas, explosion.....	93	10	6	7	63	5	2
Gasoline and other petroleum products.....	99	12	22	24	14	26	1
Other and indefinite explosions.....	91	27	15	11	28	8	2
High Pressure Apparatus.....	124	67	1	19	27	10	
Bursting of ammonia apparatus.....	3	2					1
Bursting of other high pressure apparatus.....	41	37		3	1		
Bursting, other and indefinite.....	80	28	1	16	26	9	
Electricity.....	261	79	26	84	54	16	2
Trolley wire.....	5	2		3			
Third rail.....	10			10			
Transmission wire.....	36	5	12	13	4	2	
Switchboard apparatus.....	5	1	2				
Switches, controllers and fuses.....	43	14		19	8	1	
Motors and generators.....	6	2	1	2	1		
Transformers.....	7	2	1	4			
Electrical fixtures.....	24	9	2	3	9	1	
Electrical appliances.....	28	9			15	4	
Short circuits.....	60	26	5	22	10	6	
Other.....	28	9	3	8	5	2	1
Conflagrations.....	45	12	2	2	25	4	
Fires in buildings.....	42	12	2	1	23	4	
Other fires.....	3			1	2		
Hot Substances and Flames.....	1,858	587	209	83	850	110	19
Water.....	440	132	11	27	255	15	
Asphalt, tar, pitch, etc.....	119	29	80	1	5	3	1
Other hot liquids.....	387	70	7	1	302	7	
Molten metal.....	172	145	17	4	1	2	3
Radiant heat from incandescent metal.....	1	1					
Metal, not molten.....	6	4	2				
Contact with hot surfaces.....	90	28	5	2	45	9	1
Oxyacetylene and electric cutting and welding.....	43	11	16	5	4	7	
Flames, clothing.....	50	22	6		7	9	1
Flames, other.....	265	68	26	10	137	21	3

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY
Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
EXPLOSIONS, ELECTRICITY, HEAT, Etc.							
Hot Substances and Flames—Concluded							
Hot glass.....	3	2					
Ignition of gasoline, oil, etc.....	118	20	25	16	16	32	9
Hot objects, other and indefinite.....	164	55	14	12	77	5	1
Total—Explosions, Electricity, Heat, Etc.	2,717	822	344	241	1,101	180	29
HARMFUL SUBSTANCES AND OCCUPATIONAL ACTIVITY							
Poisonous Substances.....	268	52	93	27	63	15	18
Carbon monoxide and dioxide.....	36	10	5	12	3	6	
Poison ivy and other plants.....	135	13	69	8	26	2	17
Illuminating gas.....	10	2	2		5	1	
Hydrocyanic acid and cyanide gases and fumes.....	2		1			1	
Septic infection.....	8	2			5		1
Other and indefinite.....	77	25	16	7	24	5	
Corrosive Substances.....	585	184	209	34	116	37	6
Lime.....	201	12	150	1	34	3	1
Cement.....	48	4	43		1		
Acids.....	118	68	7	8	16	18	1
Alkalies.....	99	52	1	11	28	5	2
Other chemicals.....	120	48	8	14	37	11	2
Irritant But Not Corrosive Substances.....	20	15	1	1	1	1	1
Occupational Diseases From*	1,522	711	218	62	430	72	29
Anthrax.....	6	6					
Lead poisoning.....	84	35	31	3	10	4	
Zinc poisoning.....	2	1	1				
Mercury.....	2	2					
Arsenic.....	2	1				1	
Nitro and amido derivatives of benzol.....	76	70	3				3
Carbon bisulphide.....	2	2					
Dope (lacquers).....	14	9	1		3	1	
Formaldehyde.....	5	4			1		
Chromic acid (chrome ulcer).....	4	1					
Handling tar, pitch, etc.....	2	1		1			
Compressed air.....	24		23	1			
Carbon monoxide.....	11	1	1	3	1	5	
Sulphuric, hydrochloric and hydrofluoric acid fumes from petroleum products (respiratory and gastro-intestinal disorders).....	3	2	1				
Continuous friction, rubbing, etc. (blisters and abrasions).....	225	116	40	15	40	8	5
Continuous vibration, pressure, etc. (bursitis and synovitis).....	127	66	26	5	25	5	
Direct contact with harmful alkalies, acids, etc. (dermatitis).....	686	276	67	23	276	31	13
Silica and dust.....	38	24	7				7
All other causes.....	198	86	16	10	73	11	2
Total—Harmful Substances and Occupational Activity.....	2,396	962	521	124	610	125	54
FALLS OF WORKERS, EXCLUDING FALLS FROM VEHICLES AND FALLS INTO ELEVATOR SHAFTS							
Falls on Stairs and Steps.....	2,918	359	160	267	1,804	312	16
Due to handling objects.....	457	26	47	69	263	47	5
Slipping on wet steps.....	102	19	4	13	58	6	2
Slipping on icy steps.....	92	7	5	27	47	1	3
Slipping or loss of balance, n. o. c.†.....	1,164	164	44	85	744	124	3
Stumbling, misstepping, heel catching, etc.....	591	86	23	30	380	70	2
Falling over loose objects on stairs.....	109	13	9	13	59	15	
Knocked down stairs.....	2	1			1		
Defective or broken stairs.....	89	12	9	12	52	8	
Other and indefinite.....	312	31	18	18	200	44	1

* See also "Poisonous Substances" and "Corrosive Substances".

† Not otherwise classified.

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
FALLS OF WORKERS—Concluded							
Falls from Ladders.....	1,821	254	570	117	594	232	54
Breaking of ladder or parts.....	148	16	51	9	49	16	7
Slipping, twisting or fall of ladder.....	689	95	214	45	228	86	21
Knocked off ladder.....	32	4	9	5	11	2	1
Falls from ladders while handling objects.....	85	15	25	3	23	16	3
Slipping of foot or loss of balance.....	515	77	163	38	167	59	11
Falling in getting on or off.....	81	12	30	8	21	5	1
Slipping or breaking of tool.....	16	6	5	1	3	1	1
Other and indefinite.....	255	29	73	8	92	43	10
Falls from Scaffolds and Stagings.....	750	45	538	16	37	8	6
Breaking or slipping of scaffold.....	268	13	232	3	12	6	2
Breaking of tackle or support.....	20	1	17	.....	2	.....	.....
Tilting of scaffold.....	4	1	2	.....	1	.....	.....
Tilting or falling of loose plank.....	30	2	33	1	2	.....	1
Defective or broken surfaces.....	14	.....	13	.....	1	.....	.....
Falls from scaffolds while handling objects.....	31	1	29	.....	.....	.....	1
Slipping or loss of balance.....	154	11	129	5	8	1	.....
Falling over loose objects on scaffold.....	6	1	5	.....	.....	.....	.....
Knocked off scaffold.....	16	2	12	2	.....	.....	.....
Falling in getting on or off.....	72	5	61	1	4	.....	1
Slipping or breaking of tool.....	7	1	5	.....	1	.....	.....
Other and indefinite.....	119	7	100	4	7	.....	1
Falls from Other Elevations.....	2,002	129	631	238	441	209	54
Benches, boxes, chairs and tables.....	590	144	75	28	243	86	2
Structures not in erection or demolition.....	27	.....	5	11	8	2	1
Cranes, derricks, elevators and hoists in erection or rigging.....	3	2	1	.....	.....	.....	.....
Elevated bins, pockets and tanks.....	11	4	2	1	1	1	1
Structures in erection or demolition.....	174	5	160	2	4	.....	3
Temporary floors.....	2	.....	1	.....	1	.....	.....
Boilers, engines and machines.....	92	57	18	2	8	4	3
Piles of material.....	106	42	11	17	5	28	3
Poles, trees and towers.....	97	3	13	39	20	.....	22
Roofs.....	94	8	71	4	5	4	5
Runways, balconies and platforms.....	463	104	193	73	46	36	11
Loading platforms.....	56	18	10	28	1	0	1
Gangplanks.....	9	1	1	6	1	.....	.....
Tramways and trestles (including railroads).....	7	.....	3	1	.....	3	.....
Window and wall openings.....	64	4	14	1	43	2	.....
All other elevations.....	209	37	61	25	55	25	6
Falls into Excavations, Pits and Openings.....	524	73	223	72	98	43	15
Bins, vats, etc., with hot or corrosive substances.....	30	26	2	.....	1	1	.....
Bins, pits and vats, other.....	118	25	15	35	21	20	2
Floor openings, except elevator shafts.....	189	16	102	7	43	15	6
Manholes (street, sidewalk, etc.).....	16	.....	10	2	3	1	.....
Quarry, from bench or face.....	3	.....	.....	.....	.....	3	.....
Excavations, ditches and other openings.....	168	0	94	28	30	0	4
Falls on Level Surfaces.....	10,137	2,278	1,390	1,869	3,334	1,116	150
Slipping of foot.....	3,655	711	290	567	1,639	405	43
Falls due to defective surfaces.....	224	33	36	76	67	8	4
Slipping or breaking of tools or work.....	303	104	59	69	29	34	8
Stumbling over fixed objects.....	141	36	12	22	51	12	8
Falls when handling bulky objects.....	2,677	704	453	566	581	321	52
Stumbling over loose objects.....	1,320	351	231	194	361	167	10
Falls with injuries due to objects in hands.....	801	147	192	177	204	72	9
Injury or fall due to foot catching.....	145	29	17	20	60	15	4
Other and indefinite.....	871	163	100	178	342	82	6
Other and Indefinite Falls of Workers.....	104	34	23	16	16	13	2
Total—Falls of Workers.....	18,256	3,472	3,635	2,595	6,324	1,933	297

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
STEPPING ON AND STRIKING OBJECTS							
Stepping On Objects	507	88	215	47	89	57	11
Nails	424	60	211	31	67	46	9
Sharp objects, other and indefinite	83	28	4	16	22	11	2
Striking Objects	3,255	989	504	345	892	490	35
Nails	166	52	57	4	36	15	2
Sharp projections from walls, etc.	355	107	74	18	95	59	2
Fixed objects	1,442	426	180	177	429	215	15
Fellow worker	118	26	10	6	59	16	1
Loose objects, and other or indefinite	1,122	369	160	134	261	184	14
Struck by object stepped on	52	9	23	6	12	1	1
Total — Stepping On and Striking Objects	3,762	1,077	719	392	981	547	4
FALLING OBJECTS, NOT IN HANDLING							
Collapses	149	45	54	20	13	14	3
Buildings and walls	32	2	22	2	4	1	1
Piles	93	37	18	17	9	11	1
Scaffolds and stagings	12	1	11	—	—	—	—
Chutes, conveyors, slides and screens	2	—	1	—	—	—	—
Other and indefinite	10	4	2	1	—	2	1
Objects Falling from Elevations	1,270	375	413	116	188	162	15
Structures not in erection or demolition	65	20	9	3	26	7	—
Bins and pockets	2	1	—	1	—	—	—
Trestles and tramways	2	—	2	—	—	—	—
Runways, balconies and platforms	13	4	2	5	1	—	1
Racks and shelves	85	24	3	4	24	30	—
Floor openings, except elevator shafts	16	—	16	—	—	—	—
Chutes, conveyors, slides and screens	42	16	7	9	2	6	2
Machines and workbenches	297	178	29	22	26	38	4
Piles	170	50	33	45	10	32	—
Structures in erection or demolition	200	3	186	2	6	2	1
Scaffolds and stagings	44	1	36	2	1	3	1
Other and indefinite	334	78	90	23	92	44	7
Trees Falling	91	38	18	3	14	—	18
Objects Tipping Over	280	116	42	35	56	31	—
Objects Falling into Excavations	56	—	51	3	2	—	—
Ditches and trenches	38	—	35	1	2	—	—
Other and indefinite	18	—	16	2	—	—	—
Cave-ins	115	—	89	10	11	2	3
Ditches and trenches	71	—	57	5	6	2	1
Tunnels	1	—	1	—	—	—	—
Sand banks and all other cave-ins	43	—	31	5	5	—	2
Falling Objects in Mines, Quarries and Tunnels	182	—	152	1	—	—	29
Other Falling and Shifting Objects	347	53	94	41	128	22	9
Poles	3	—	1	2	—	—	—
Objects falling due to wind, etc.	35	4	17	7	5	1	1
Other falling and shifting objects	309	49	76	32	123	21	8
Falling Objects, Handling Not Determined	661	203	155	106	88	100	8
Total — Falling Objects, Not in Handling	3,151	830	1,068	335	500	331	87

TABLE 27—(Continued)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
HANDLING OBJECTS							
Heavy and Bulky Objects	18,458	5,156	3,154	3,790	3,536	2,529	293
Objects dropped while handling, carrying, etc.	2,654	821	606	416	473	304	34
Objects handled by fellow worker	450	103	132	75	89	47	4
Objects dropped or falling while loading	1,073	210	147	516	60	121	19
Objects dropped or falling while piling	182	69	27	38	12	33	3
Caught between object handled and other object	1,434	384	336	395	172	119	28
Strain in handling	10,759	3,061	1,506	1,947	2,436	1,636	173
Objects slipping, breaking and other or indefinite	1,906	508	400	403	294	269	32
Sharp and Rough Objects	4,293	1,364	498	352	1,401	622	56
Glass	808	155	52	69	452	75	5
Nails	226	65	48	27	40	46	...
Wire and metal straps	423	134	84	84	45	70	6
Sheet metal and sheet metal objects	519	232	77	26	111	73	...
Wood slivers	493	186	93	57	70	76	11
Metal slivers	382	124	52	19	157	28	2
Castings	5	3	1	...	...	1	...
Bones	149	19	...	6	40	83	1
In hands of fellow worker	7	4	1	...	1	1	...
Pins and sharp objects, other and indefinite	1,281	442	90	64	485	169	31
Hand Trucks, Carts and Wheelbarrows	1,050	455	92	226	130	141	6
Struck by truck in handling	336	123	27	86	47	52	1
Struck by truck handled by fellow worker	72	32	7	16	12	5	...
Caught between truck and other object	148	79	6	22	24	17	...
Objects falling from truck, not in handling	170	77	18	32	19	24	...
Overturning	95	35	24	12	12	8	4
Running over hands or feet	189	88	9	49	11	31	1
Other and indefinite	40	21	1	9	5	4	...
Continued Wear from Handling and Friction							
Burns	98	42	20	7	17	7	5
Handling Objects, Not Heavy, Bulky or Sharp	38	21	2	5	4	6	...
Total—Handling Objects	23,937	7,038	3,766	4,380	5,088	3,305	360
HAND TOOLS							
In Hands of Injured Worker	4,372	1,212	885	410	892	864	109
Glancing and slipping of tool in use	3,580	1,040	620	323	774	738	85
Breaking and coming apart of tool	101	31	25	8	17	19	1
Flying pieces set in motion by tool	602	111	228	74	72	95	22
<i>Nails and spikes</i>	37	8	13	8	3	5	...
<i>Metal chips</i>	236	58	67	31	15	61	4
<i>Stone</i>	117	5	89	3	8	1	11
<i>Other and indefinite</i>	212	40	59	32	46	28	7
Tools in hands of worker, other and indefinite	89	30	12	5	29	12	1
In Hands of Fellow Worker	369	74	159	55	43	26	12
Glancing and slipping of tool in use	303	59	135	46	34	21	8
Breaking and coming apart of tool	10	4	3	...	3	...	...
Flying pieces set in motion by tool	52	8	21	9	5	5	4
<i>Nails and spikes</i>	1	...	1	...	...	...	...
<i>Metal chips</i>	25	6	5	6	2	4	2
<i>Stone</i>	12	1	8	...	1	...	3
<i>Other and indefinite</i>	14	1	7	3	2	1	...
Tools in hands of fellow worker, other and indefinite	4	3	...	...	1	...	...
Total—Hand Tools	4,741	1,286	1,044	465	935	890	121

TABLE 27—(Concluded)
NUMBER OF COMPENSATED ACCIDENTS, BY CAUSE AND BY INDUSTRY

Cases closed in 1939

Causes of accidents	Total number of cases	Industry					
		Manufacturing	Construction	Transportation	Service	Trade	Other
ANIMALS							
Draft Animals	234	24	3	152	23	1	39
Kicked and stepped on by animals.....	88	14	1	61	3	.....	1
Bites.....	2	1	.....	1	.....	.....	.....
Runaways.....	45	2	.....	24	4	1	14
Other and indefinite.....	99	7	2	66	16	.....	8
Other Animals	175	32	8	18	72	17	28
Total — Animals	409	56	11	170	95	18	59
MISCELLANEOUS							
Miscellaneous	2,908	542	285	432	1,234	380	35
Flying particles and objects, not from machines and hand tools.....	338	111	44	68	62	42	11
Doors, windows, covers and gates.....	962	194	54	72	498	141	3
Drenching, not drowning.....	14	1	6	1	6	.....	.....
Heat prostration and sunstroke.....	28	12	5	1	7	2	1
Cold, including frostbite.....	67	10	12	16	21	7	1
Lightning.....	4	1	1	1	.....	.....	1
Violence of fellow worker.....	95	20	10	10	46	9	.....
Violence, all other.....	488	12	14	92	331	39	.....
Wrestling, sparring, chasing and horseplay.....	20	3	.....	.....	16	1	.....
Compressed air, not explosions.....	111	17	27	32	3	32	.....
Cyclones, floods, earthquakes, etc.....	7	1	.....	1	3	.....	2
Miscellaneous accidents, other.....	159	39	22	17	64	15	2
Injuries due to position assumed.....	600	120	87	120	171	89	13
Swallowing objects.....	8	.....	2	.....	4	2	.....
Accidental discharge of firearms.....	7	1	1	1	2	1	1
Total — Miscellaneous	2,908	542	285	432	1,234	380	35
INDEFINITE HISTORY OF ACCIDENT							
Indefinite History of Accident	132	48	13	9	40	16	6
Grand Total — All Accidents	77,357	22,290	13,045	12,765	19,016	8,894	1,347

